

Engr. Ishfaque Ahmed Khanzada

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Objective: *Highly motivated to secure a dynamic and challenging opportunity within a progressive organization, where I can apply my academic and professional skills to contribute to the organization's success while fostering my own professional growth.*

Qualification:

- **Ph.D. Fellow** **2023**
Computer & Information System Engineering
NED University of Engineering and Technology, Karachi
Synopsis / Research Area: Cryptography / Cyber Security / Digital Forensics

- **Post Grad. Training “Digital Forensics”** **2020** [Topper in the class]
Institute of Business Administration, Karachi
Majors: Cryptography and Computer Forensics

- **Master of Science in “Computer Engineering”** **2014** 18 Yrs. [1st Division]
Sir Syed University of Engineering and Technology, Karachi
Majors: Computer Networks, Distributed Applications, Stochastic Process Engineering
Specialization: Network Performance & Evaluation, WSN, Computer Security

- **Bachelor of Science in “Computer Engineering”** **2009** 16 Yrs. [1st Division]
Sir Syed University of Engineering and Technology, Karachi
Majors: Advanced Computer Architecture, System Programming I/II, Robotics, Software Engineering, OOP, Communication Systems, LDST, Comp. Sec., DS, FAT
Specialization: RDBMS, Embedded Systems, CCN, Software Engineering, Wireless Networks

Experience:

- 1) Working as **Network and System Administrator** in **University of Karachi** (October 2018 – till date)

JOB DESCRIPTION:

- ✓ Leading the technical operations of the Main Communication Network, the Central Data Network and Communication Department of the University.
- ✓ Deploying, configuring and managing the whole ICT and communication setup at University of Karachi
- ✓ Controlling and monitoring the Internet traffic i.e: with Next-Gen Firewall XG330 SOPHOS with Traffic Capturing, Monitoring and Shaping , IPS, IDS, Secure VPN’s, Packet Filtration and etc
- ✓ Strategizing the established LAN topologies
- ✓ Technical Lead Assistance in the Virtual Learning one of the major contribution of University.
- ✓ Technical Member of the University’s ERP Committee, LMS(Moodle) deployment committee, Online Learning Committee and many others.
- ✓ Technical Member of the committee on HEC’s mega project the implementation of ICT

Infrastructure with responsibilities of deploying, configuring and leading the end-to-end a turn-key solution

- ✓ Development, Implementation, Configuration and Administration of ICT within the organization
- ✓ Defining procedures and policies
- ✓ Creating of strategic goals, convertible to easily implemented plans
- ✓ Deployments of Optical Fiber, with splicing and affixing of joint enclosures
- ✓ To provide the technical lead assistance in Virtual/Online Conferences
- ✓ Technically organizing the National and International Institutional webinars, online events, and other technical sessions

ADDITIONAL RESPONSIBILITIES:

- Head of the “**Central Telephone Exchange**” Analogue and IPT Infrastructure (2021 – till date)
- **Focal person – “Digital Learning and Skill Initiative (DLSEI-I & II)”** for the University twice since **2022 and 2023**, enrolled around 1000’s of faculty members/staff/students to the HEC program, nominated by the Registrar
- **Focal Person – Information Science and Technology Department – ISTD (Govt. of Sindh)** for “IT Industry Academia Bridge Program” – 2023 nominated by the Vice Chancellor
- **Focal Person – SPPRA’s E-procurement committee at Ministry of Universities and Boards, Govt. of Sindh”** – 2023 nominated by the Vice Chancellor
- **Technical Committee Member** for Center for Digital Forensic Science and Technology, Pakistan

2) Program Manager

MetaPi

(December 2023 – till date)

JOB DESCRIPTION:

- ✓ Led the design and execution of Sindh based IT training and certification programs, collaborating with governmental bodies such as MoIT&T, PSEB, and NAVTTC to deliver free courses in high-demand domains including Cybersecurity, Cloud Computing, Artificial Intelligence, and Blockchain
- ✓ Managed end-to-end program lifecycles, from strategic planning and stakeholder coordination to implementation and evaluation, ensuring alignment with MetaPi's mission to empower individuals and organizations through quality education
- ✓ Oversee program whole lifecycle of program from initiation to closure, including scoping, budgeting, risk management, and performance evaluation
- ✓ Coordinate with external partners, government stakeholders, and institutional part to foster collaborative growth in tech-based capacity building initiatives
- ✓ Implement agile methodologies for management frameworks to enhance team productivity and process efficiency
- ✓ Drive continuous improvement initiatives through performance metrics, data-driven decision making, and stakeholder feedback loops
- ✓ Ensure compliance with organizational policies, data governance standards, and regulatory requirements across the programs i.e. PSEB, NAVTTC etc

3) Working as Technical Coordinator in Distance Education Program - UoK (January 2021 – till date)

JOB DESCRIPTION:

- ✓ Technical assistance for the Directorate in smooth execution of the Programs.
- ✓ Designing the office literature, Proformas, Certificates, Formats and Manuals
- ✓ Ideas to organize in emerging as virtual courses, events and short term based certifications

- 4) Worked as **Manager IT** at “**ICCBS**”
International Centre for Chemical & Biological Sciences (March 2015 – October 2018)

JOB DESCRIPTION:

- ✓ Planning, Organizing, Directing, Controlling and Evaluation of operations regarding Information Technology
- ✓ Designing of IT Infrastructure, Strategizing of Roadmap, Direct, and coordinate the design, implementation and installations
- ✓ Development, Implementation, Configuration and Administration of ICT with in the organization
- ✓ Defining procedures and policies
- ✓ Creating of strategic goals, convertible to easily implemented plans
- ✓ Deployments of Optical Fiber, with splicing and affixing of joint enclosures
- ✓ Technically organizing Webinars
- ✓ Video Conferencing with CISCO telepresence system, Tandberg, Polycom
- ✓ Technically organizing International and National Conferences and Workshops
- ✓ Conducting Online Web-sessions, Online Lectures through Video Conferencing
- ✓ Firewall Configuration and management SG-6000-T3860, Enterprise Hillstone T-Series Intelligent Next-Generation Firewall with analyzer vHSM
- ✓ Conducting Workshops and events through Adobe Connect 9, Cisco WebEx and other web conferencing facilities

- 5) **Visiting Faculty – Department of Public Administration | University of Karachi (2025 – onwards)**

- ✓ Project Management and System Analysis and Design (*BS Program*)

- 6) **Visiting Faculty – Department of Commerce | University of Karachi (2024 – onwards)**

- ✓ Computer Orientation (*BS Commerce Program*)

- 7) **Visiting Faculty – Department of Public Administration | University of Karachi (2024 – onwards)**

- ✓ *Digital Eco System (BS-PA)*

- 8) **Visiting Faculty – Department of Microbiology | University of Karachi (2023)**

- ✓ Computer System Applications (*BS Program*)

- 9) **Visiting Faculty – Department of Physiology | University of Karachi (2023)**

- ✓ Computer Applications (*BS Physio*)

- 10) **Visiting Faculty – Department of Public Administration | University of Karachi (2023)**

- ✓ System Analysis and Design (*BPA and MPA*)
- ✓ *Digital Eco System (BS-PA)*

- 11) **Visiting Faculty @Department of Sindhi | University of Karachi (2023)**

- ✓ Computer Applications (*BS Sindhi*)

- 12) **Visiting Faculty @Department of General History | University of Karachi (2023)**

- ✓ Computer Applications (*BS Gen. Hist.*)

- 13) **Visiting Faculty @Department of Geology | University of Karachi (2023)**

- ✓ Computer Applications (*BS Geology*)

- 14) **Visiting Faculty @AIMS – Awaz Institute of Media Sciences (2022 – 2023)**

- ✓ Network Security (*BS-SE*)

15) Visiting Faculty @Department of Public Administration – University of Karachi (2022 – till date)

- ✓ Cyber Security Laws and Ethics
- ✓ System Analysis and Design (*BPA and MPA*)
- ✓ Project Management (*MPA Morning*)

16) Visiting Faculty @Department of Computer Science – University of Karachi (2020 – till date)

- ✓ Data Communication and Networking (*MCS – Computer Science*) 2020
- ✓ Operating Systems (*MCS – Computer Science*) 2021
- ✓ Introduction to Computer Science (*PGD – UBIT*) 2021
- ✓ Concepts of Operating Systems (*BS – Software Engineering*) 2022
- ✓ Operating Systems (*BS – Software Engineering*) 2023

17) Visiting Faculty @Computer Science Department – M.A Jinnah University (2014 – 2015)

- ✓ Advance Routing Protocols (*M.S – Telecommunication and Networks*)
- ✓ ICS (*B.S – Computer Science*)
- ✓ Satellite Communications (*B.S – Telecom*)

OTHER RESPONSIBILITIES:

- ✓ Taking care of the M.S. Research students enrolled for independent studies
- ✓ Handling Final Year Projects as being a member of FYP Committee of MAJU
- ✓ Organizing Computer Science monthly seminars

18) Worked as “Network Engineer – Promoted as IT Team Lead” (October 2012 – December 2015)

JOB DESCRIPTION:

- ✓ Planning, Organizing, Directing, Controlling and Evaluation of operations regarding Information Technology.
- ✓ Designing of IT Infrastructure, Strategizing of Roadmap, Direct, and coordinate the design, implementation and installations.
- ✓ To provide the company with technically sound support in troubleshooting.
- ✓ Development, Implementation, Configuration and Administration
- ✓ Defining policies and procedures.
- ✓ Creating of strategic goals and convert to easily implemented plans.
- ✓ Implementation of New Equipment's, Managing multiple areas of IT.
- ✓ Manage external vendor relationships and services as needed.
- ✓ Meet with managers to discuss system requirements, specifications, costs, timelines and support to ensure reliability.
- ✓ Performing connectivity of computer and network systems to ensure the stability, integrity and security of data.
- ✓ Define and improve all systems and operations processes.
- ✓ Managing internal/external application upgrades.
- ✓ To Ensuring timely and accurate delivery of technology products and services.
- ✓ Overseeing new system facilitation, current system enhancements
- ✓ Staffing, training, disciplining and performance
- ✓ Assigning duties to the I.T Staff
- ✓ Deployment, Installation, Configuration, Maintenance & Troubleshooting of network
- ✓ TCP/IP Suit/ FTP/SFTP/CRM Server Management on IBM LOTUS 8.5
- ✓ VoIP Solution PRI Physical end /SIP / ASTRISK Server/ Grand stream H/W deployment, IP Phone configurations.
- ✓ Managing the whole passive end appliances and equipment's.

- ✓ NVR/DVR/IP Camera management and H/W implementation.
- ✓ Maintaining VC Links and Que-metric teller m/c configuration and installations.

19) Worked as “IT/Network Engineer” – Software Technology Innovator’s - STI (Nov 2008 – Oct 2012)

- ✓ Worked with one of the large network of Karachi to provide technical support to the campus wide network comprising over approx. 1200 nodes
- ✓ Troubleshooting connectivity issues on a variety of manageable switches like Cisco and 3Com, Routers Cisco L2 and L3 Switches at Core Layer and Distribution Layer
- ✓ Installation, assembly and maintenance of network devices of different types from cables UTP, Coax, I/O and Access Point’s configurations

Experience

During Academia:

**1) Teacher Assistantship for Junior batches of Computer Engineering Department – CCN Labs
(January 2008 – June 2008)**

- ✓ 6 months Teacher Assistant Ship for CED students to demonstrate on Networks, *topics*; access technologies, applications and standards including TCP/IP concepts, (IPV4 & IPV6), routing protocols (RIP, EIGRP, OSPF, ISIS & BGP) & latest technologies (MPLS, VoIP & QoS)

**2) Teacher Assistantship for Junior batches of Computer Engineering Department – DS Labs
(January 2007 – June 2007)**

- ✓ 6 months Teacher Assistant Ship in Computer Engineering Department for the Course “Data Structures” to demonstrate the Theory of Algorithms and DS

**3) Worked as Database Assistant – @UC6 NKT, CDGK
(January 2006 – January 2007)**

- ✓ Building and marinating all over the consulting database
- ✓ Updating, Modifying the record with defining self-based algorithms, methods to control Databases
- ✓ Manipulation of whole ongoing project (*Project made by: Org. +O plus*) a small team belongs to me as a leadership

Skills:

Operating Systems: Ubuntu, Linux Mint 14, Open Suse, KOHA MS-DOS, Win3.1/3.11/95/97/98/Whistler/ XP/7/8/8.1/10	Hardware: Assembling, Partitioning / Disk Data Recovery BIOS Config and Updates, GHOST, Video Conferencing
Programming Languages: WordStar, GWBASIC, TC++, VB6, JAVA, SQL, PL/SQL, UML with Rational Rose	Graphics: Adobe PS-CS3, 6, AutoCAD, Canva, MS Publisher MS Visio, Filmora 10, EDRAW Max 7.3
Networks: Win Server 2000/2003/2008/2012/2016 R2. LAN and WAN Technologies, CISCO L2 and 3 Switches, Voice, SIP Server, IMAP/POP Emailing through MS-Exchange, Boson NetSim, Packet Tracer, GNS3,ISA Server, RUCKUS AP's and Controller, MS-WDS, AD, ADDNS, DHCP Server, DNS, Hyper-V, VM Ware, Fusion Compute – Huawei, Amazon Cloud, Microsoft Azure, VMWARE, virtualization	Web Applications: HTML,CSS, MS FrontPage, Dreamweaver, WordPress, Bootstrap, XAMMP,WAMP Local Server Hosting, Data Migrations DNS Propagations, Hosting/Cloud Server, O365, Management (AWS, Bluehost, GoDaddy, In- motion VPS and Dedicated Servers), AWS-Web Services Solution Architect Associate
Security: UTM's and Firewalls i.e. SOPHOS XG-330 FW, SG-6000-T3860 Hillstone iNGFW, PFSense, SOPHOS XGS-3300, Web Security(IP Cop., Trend Office), CCTV Monitoring and Configuration, Wireshark, Symantec End-Point Protection, Bit Defender, SolarWinds Monitoring with NMP and NTA, PRTG, Zabbix NMS & NTA, Cisco TREX, FortiGate201.1 G, FortiOS, FortiAnalyzer	Web / Video Conferencing: Logitech Rally, Citrix, MS-Teams, Zoom, G-Meet, Huawei IDEA Hub, Cisco BMS, Webex, Cisco Room Kit Pro/Room Kit Plus, SIP, H.232

Projects:

- ❖ **Integration, Automation & Enhancement of Domicile & PRC System in Karachi Division (ADP No.2832 of 2025-26)**

Tenure: 2025-Onwards

My Role: Technical ICT Expert / Member of the Committee

Aim & Objective of the Project:

Revolutionizing Public Service Delivery through the Digital Transformation, Integration, and Automation of the Domicile & PRC System in Karachi Division — A Comprehensive Computerization Drive for DDWP (ADP No. 2832 of 2025–26)

❖ Digitalization of Examination System Procurement of Hardware / Software and Services for “Board of Intermediate Secondary Education”

Tenure: 2021-Onwards

My Role: Technical Member of the Committee

Aim & Objective of the Project:

To Digitalize and Computerized the Examination System of Board of Intermediate Secondary Education procuring the Hardware, Software and Services for the technical proposal

❖ SIREN: Sindh Innovation Research & Education Network

(A Project of Sindh Government)

Tenure: Three Years (2018-2021)

Volume: 198.6 Million PKR

My Role: Technical Head

Aim & Objective of the Project:

The establishment of “Sindh Innovation, Research, and Education Network (SIREN)” would be first initiative of province for wide Distance-less Education program in Pakistan to propagate knowledge and to improve the quality of education in the province of Sindh. This network will be established in collaboration of Higher Education Commission, Sindh. The proposed SIREN would link all universities of Sindh and their campuses, and later colleges and schools as well, through the most modern, yet cost effective, technologies which will enable everyone to be engaged in learning, teaching, and research activities through the focal center LEJNSIC. The network will develop capacity building in modern pedagogical courses and training workshops by leading educationists of the world, curriculum-based lectures, and courses by the best Pakistani and Foreign teachers in every discipline. This will result in the creation of working groups of researchers in various disciplines, and arrangement of periodic meetings to foster research partnerships and collaboration. Courses on Intellectual Property Rights (IPR), innovation ecosystem, entrepreneurship, incubation of technologies, and other advanced topics will all be offered through the SIREN

❖ ICT Infrastructure Revamping for the whole University of Karachi

(A Project of HEC Pakistan)

Year: 2018-2020

Volume: 192.08 Million PKR

Aim & Objective of the Project:

HEC funded project titled ‘Improvement of academic facilities at University of Karachi’ as Supply, Installation, Configuration, Deployment, Testing, Commissioning the whole ICT Infrastructure for University Of Karachi

My Role: Administrative and Technical Head

Responsibilities: - Designing the Internet and Intranet Topology with backbone Ring of Optical Fiber
- Preparing the Technical RFP and design of required appliances and the BoQ
- Evaluation of Bids

❖ **LEJ Knowledge Hub: Latif Ebrahim Jamal Education and Knowledge Hub**

(A Project of Eminent Scientist: Prof. Dr. Atta-Ur-Rahman)

Nishan-e-Imtiaz, Hilal-e-Imtiaz, Sitara-e-Imtiaz

Aim & Objective of the Project:

“LEJ Knowledge Hub” an open learning platform with integrated MOOC’s approach. The unique feature of this approach is to integrate thousands of video lecture or full courses from top Universities around the world (MIT, Udacity, Stanford Engineering Everywhere, Open Yale Courses, NPTEL, Khan Academy, Virtual University of Pakistan and other universities) at different levels, i.e. school, college, undergraduate, graduate and in various fields. Anyone can have free and ready access to the required fields of study and without any need to access to different MOOCs. They will have access to the best and carefully selected lectures and courses in their chosen disciplines. The rights for free broadcasting and non-commercial dissemination have also been obtained.

The compilation and integration of lej4learning is directly supervised by most celebrated scientists of Pakistan, Prof. Dr. Atta-Ur-Rahman FRS and Prof. Dr. M. Iqbal Choudhary as a monumental service to the nation and world at large.

❖ **Setting-up Huawei’s HAINA ICT Academy at University of Karachi**

(A joint venture Project of HEC Pakistan and Huawei Telecom, China)

Year: 2019

Aim & Objective of the Project: Training, Knowledge Transfer and Skill development

My Role: Technical Head

Responsibilities: Setting up and managing the HAINA Lab with Huawei officials

❖ **Azure Cloud Services at University of Karachi:**

Aim & Objective of the Project: Setting up Cloud Computing for High-Performance Compute and Big Data specially in Genomics Research Lab in University of Karachi

My Role: ICT Head

❖ **ICT Infrastructure deployments in Technology Park and Technology Incubation Center:**

(A Project of Government of Sindh)

Tenure: Three Years (2018-2021)

Volume: 28.8 Million PKR

Aim & Objective of the Project: Providing a Platform to the Tech Startups / Entrepreneurs.

My Role: Technical Head

Responsibilities: Design and Deployment of the whole ICT infrastructure for the Incubation Center

❖ **Setting-up the IT Services and Infrastructure in First Virology Center of Pakistan**

(A Project of Dr. Panjwani Center for Molecular Medicine, Karachi)

Tenure: Three Years (2018-2021)

Volume: 43.22 Million PKR

Aim & Objective of the Project: First of its Kind Virology Center in Pakistan, To find the different genes of newly emerged Viruses

My Role: Technical Head

Responsibilities: Installations, Design and Deployment of the whole ICT infrastructure for the Center

❖ ICCTV Surveillance Project for University of Karachi

Year: 2022-2023

Volume: 23.05 Million PKR

Aim & Objective of the Project:

Project entitled *'Improvement of CCTV Surveillance and Security facilities at University of Karachi'* as Supply, Installation, Configuration, Deployment, Testing, Commissioning the CCTV and Access systems

My Role: Technical Member

Responsibilities: - Designing the Topology with backbone Ring of Optical Fiber
- Preparing the architect level technology drawings, Technical RFP and design of required appliances and the BoQ
- Evaluation of Bids and completion

Contributions:

- Reviewer and Contributor of National “Technology Policy” for Pakistan through Cabinet Division, the policy entitled “**Pakistan Security Standard for Cryptographic & Information Technology Security Devices**” as **PSS-IT Security Guide Book**, devised with National Telecom & Information Technology Security Board (NTISB) Ref: <https://cabinet.gov.pk/download>
- Reviewer and Contributor in formulation of National Technology Policy for Pakistan via Cabinet Division, the policy entitled “**Pakistan Security Standard for Cryptographic & Information Technology Security Devices**” as **Cryptographic Security Guide Book**, devised with National Telecom & Information Technology Security Board (NTISB) Ref: <https://cabinet.gov.pk/download>

Focal Person / Achievements:

- **Focal Person** for the Information Science and Technology Department (ISTD) under the “**IT Industry Academia Bridge Program – 2023**”, Provincial Department of Information Technology.
- **Primary PoC**(Point of Contact) for the University’s liaison with the **Higher Education Commission (HEC)**, managing and facilitating all HEC-driven services and initiatives.
- **Focal Person** for the **Digital Learning and Skill Enrichment Initiative (DLSEI)** by federal higher education commission, overseeing all three phases: **Phase-I, Phase-II, and Phase-III** (2022 till now).
- **Principal Contact** for **Microsoft Pakistan** at the University level, coordinating the rollout and promotion of new initiatives across Higher Education Institutions (HEIs).
- **Technical Committee Member** for campus-wide surveillance and security infrastructure, including CCTV systems, at the University’s **Central Security Office**.
- **Member** of the **Non-Academic Selection Board** for the recruitment and evaluation process for multiple administrative and technical roles, including the position of “**Network & System Administrator**” at the **International Center for Chemical and Biological Sciences(ICCBS)**, (HELD **November 18, 2021**).
- **Procurement Committee Member** under **SPPRA** (Sindh Public Procurement Regulatory Authority) at **Dawood University of Engineering and Technology** since 2022.
- Appointed as **Professional Member** for the **Center for Curriculum Research & Development (CCRD)** in collaboration with the **Sindh Board of Technical Education (SBTE)**, contributing to curriculum development for the **3-year DAE program in Blockchain Technology**.
- Appointed as an **External IT Expert** on the committee of **SPPRA** for the **USAID SePS Project**, facilitating the deployment of **E-Procurement systems** across Sindh province.

- Engaged as a **Technical Member and ICT Expert** on the committee of **MADADGAR 15, Sindh Police**, for technology planning and advisory services.
- **Panel Member** in the **Selection Board(Non-Academic)** at ICCBS, contributing to the structured evaluation of candidates for critical roles such as **Manager IT, Social Media Coordinator** and other administrative and operational positions (**November 2020**).
- Appointed **Focal Person** for the **E-Procurement Committee** of **SPPRA, Sindh**, supporting digital transformation in public procurement.
- Acting as **Technical Member and ICT Consultant** for the **IT Executive Committee** of the **Board of Intermediate and Secondary Education (BIE), Karachi**, offering expert guidance on digital initiatives
- Invited to serve as a **Subject Specialist** on the **Selection Committee**, to interview IT positions at International Center for Chemical and Biological Sciences-ICCBS **July 9, 2024**
- Serving as **Convener** of the **Web Management Committee** at the **University of Karachi**, overseeing web strategy and governance(2022 till now)
- Nominated as **Expert Member** for the **Charter Inspection and Evaluation Committee** of the **Sindh Higher Education Commission**, reviewing and evaluating IT-focused short courses and programs.
- Appointed as the **University's Focal Person and IT Representative** for the **Pakistan Citizen Portal (PCP)**, ensuring timely and effective digital communication with the Government.
- Nominated as a **Professional/Expert Member** by the **Sindh Board of Technical Education** in the **Center for Curriculum Research & Development (CCRD)** for curriculum evaluation and development of the **DAE program in Cloud and Cyber Security**.
- Invited by the **Coordinator General** of **COMSTECH(Standing Committee on Scientific and Technological Cooperation of the OIC) 54 countries of the world**, in the panel for expert evaluation and Interview the candidates to appoint at the COMSTECH Secretariat, Islamabad, March 26, 2025.
- Nominated and selected as **Convener** for The **“Web management committee”** for Convocations in University of Karachi for the year 2025
- Selected as Central Point of Contact(PoC) for **Google Career Certificate Scholarship Program-2025**, launched by Google in collaboration with **Tech Valley Pakistan** and **Information Science and Technology Department, Sindh** for the distribution of 2000 scholarship among students for overseeing the technical coordination and smooth program execution
- Conducted Program assessment as Technical National Assessor at **“Commecs Institute of Business and Emerging Sciences”** 3 June, 2025

Professional Trainings / International Certifications and Exams:

❖ **Certified 1Z0-1085-25 Oracle Cloud Infrastructure 2025 Foundations Associate**

Oracle – *Certified*

(Certificate No. and Credential ID: 323443422OCI25FNDCFA)

Oracle

❖ **Certified 1Z0-1122-25 Oracle Cloud Infrastructure 2025 AI Foundations Associate**

Oracle – *Certified*

(Certificate No. and Credential ID: 323443422OCI25AICFA)

Oracle

- ❖ **Certified SC-900**
Microsoft Certified: Security, Compliance, and Identity Fundamentals – Certified
(Certificate No. and Credential ID: F940BFEF25D0D6CE, ECC7016823459)
Microsoft
- ❖ **Certified Ethical Hacker (CEH v12) – Certified**
(Certificate No. ECC7016823459, EXAM: CEHv12)
EC-Council
- ❖ **Certified Network Security Practitioner (CNSP) – Certified**
(Certificate ID: 8814131, EXAM: 1.01)
The SecOps Group
- ❖ **AWS – Certified Solution Architect Associate (SAA) – Certified**
(Certificate Validation No. W54CQMYCVJFQQ03J)
Amazon Web Services
- ❖ **Aviatrix Certified Engineer – Multi Cloud Network Associate – Certified**
(Certificate No. cert_456j1s2g)
- ❖ **MCP – Microsoft Certified Professional – Certified**
(Certificate No. # H195-4691)
- ❖ **MCSA – Microsoft® Certified Solutions Associate:**
 - ✓ **740 – Installation, Storage and Compute with Windows Server 2016 – Certified**
(Certificate No. #H195-4691)
 - ✓ **741 – Networking with Windows Server 2016 – Certified**
(Certificate No. #H195-4691)
 - ✓ **742 – Identity with Windows Server 2016 – Certified**
(Certificate No. #H195-4691)
- ❖ **MCSE – Microsoft® Certified Solutions Expert:**
 - ✓ **345 – Designing and Deploying Microsoft Exchange Server 2016 – Certified**
(Certificate No. #H195-4825)
- ❖ **Certified Fortinet Network Security Expert Program – (NSE)**
 - ✓ **NSE1 – Network Security Associate (Level-1) – Certified**
(Certificate No. #7jsqaJaJlu)
 - ✓ **NSE2 – Network Security Associate (Level-2) – Certified**
(Certificate No. #xWrhnDlz2B)
- ❖ **ICSI – International Cyber Security Institute**
 - ✓ **CNSS – Certified Network Security Specialist – Certified**
(Certificate No. #18733392)
- ❖ **Fusion Cloud Computing – Huawei** [Huawei University, China]
- ❖ **ITIL V3.0 – Complete Training** [CTTC]
- ❖ **CCNA 7.0 (640 - 802) – Complete Training** [Pakistan Navy Engineering College]

❖ **Bureau Veritas Certifications**

- ✓ **ISO 9001:2015 (Quality Management Services)**
Certificate No. # BVC/PAK/TRNG/IAB-(01&02)-06

❖ **OCA / OCP: Oracle Certified Associate/Professional**

- ✓ **IZO-007 – Oracle 9i SQL – Complete Training**
- ✓ **IZO-047 – Oracle 10g PL/SQL – Complete Training**

❖ **SPPRA Certified (Sindh Public Procurement Regulatory Authority)**

- ✓ **MOOCS Certified for Public Procurement Processes in Sindh Government**

Conferences / Workshops:

- **IEEE – INMIC 2011** – Multi Topic Conference for Electrical and Electronics engineers Worldwide 2011
- **Participant** – Business Administration Society Seminar M.A.J.U 2013
- **Organizer** – Seminar on Microsoft Technologies including Cloud based freelancing @M.A.J.U 2014
- **Workshop** – Financial Management for Engineers, Determinants of Success for organization excellence, by IEP (Institution of Engineers, Pakistan) 24 Jan 2015

- **Technical Organizer** – Pak-France International Conference 2015 held at International Center for Chemical and Biological Sciences
- **IEEE – KSYWC/2015** – Congress held in Karachi, Pakistan December - 2015
- **Technical Organizer** – International workshop sessions through webinar in ICCBS, with collaboration with CRDF Global U.S.A., 2015
- **Organizer** – IEEE/PSYWC 16 – Served as IEEE Young Professional organizer, congress held in Karachi, Pakistan 29 Sept – 1 Oct, 2016
- **Technical Organizer** – International workshop for Scientific Writing, ICCBS University of Karachi
- **Participant – Finance for Engineers** (PEC approved: 0.5 CPD) IEP Center Karachi, 21 May 2016
- **Participant – Power System Blackout Avoidance – Technical Measures and Strategies** (PEC approved: 0.5 CPD) IEP Center Karachi, 14 Feb 2015
- **Technical Organizer – Series of Webinars from CRDF Global and Sandia National Labs., USA, 2016**
- **Participant: The 3rd National Conference on Space Science & Technology (NCSST-2015)** held on October 5-6, 2015 organized by **Institute of Space and Planetary Astrophysics (ISPA)**, Karachi, Pakistan
- **Participant** – Astronomical Sciences Workshop - **Applied Economic Research Center 2016**
- **Technical Organizer - Pak-France International Conference on Scientific Research 2016**
- **Participant – Performance System Measurement of a Supply Chain and its Integration** (PEC approved: 0.5 CPD) IEP Center Karachi, 28 May 2016
- **Delegate** – IECC - 1st International Electrical Engineering Congress on Innovation and Advances in Electrical Engineering(1.0 CPD) organized by: PEC, IEEE, NED and IEP, 13-14 May 2016
- **Participant** – PEC 1.0 CPD Workshop, **Mobile communication and Emerging Techniques Nov 30, 2015**
- **Delegate** – Seminar on “**Project Planning and Controls – The way of Good Governance**” (0.5 CPD) IEP 19th August, 2017
- **Participant** – Half Day Seminar on “**A Look at Pakistan’s Journey in Technology Development Some Thoughts and Recollections**” 26th August, 2017

- **Delegate** – 7th International Conference on Information & Communication Technologies (*ICICT 2017*), 30th – 31st December 2017
- **Organizer** – At “IBRO International Conference” UoK
- **Participant** – **Communication Skills for Engineers** (0.5 CPD) IEP, 22 Apr 2017
- **Seminar on “Project Planning and Controls – The way of Good Governance”** (0.5 CPD) IEP 19th August, 2017
- **Representative of UoK – Digitization Initiative in Universities, Gaps, suggestions and way forward** (Workshop proceedings 24-04-2019 & 25-04-2019), NED University of Engg: and Technology.
- **Active Participant** – 3-days long Knowledge Transfer Session on “**Microsoft Dynamics 365**” organized by **Microsoft Pakistan** and **HEC Pakistan**, 08 April 2019
- **Participant** – **Asia's Largest Hybrid Leadership & Entrepreneurship Summit 2021** YIC Leadership & Entrepreneurship Summit 2021 (Virtual Edition) with the theme of "The role of Entrepreneurship & Leadership in Promoting Innovation & Technology"
- **Organizer** – International conference on “**Afghanistan under Taliban: Implication for Pakistan and the Region - 2021**” organized by Department of International Relations, University of Karachi on 04th November, 2021
- **Organizer** – One Day International conference on “**Violence against women in Pakistan**” jointly organized by **UoK and United Nations Organizations(UNO)** 25th November, 2021 at Dean Faculty of Arts and Social Science
- **Participant** – **International Symposium on Digital Technologies**, 19th – 20th January 2022
- **Certificate of Appreciation** – as Organizer for the “**3rd PROBE-2022 – Physiology**” Biennial Conference held in 2022
- **Participant** – **Workshop on “Dissecting the scholarly publishing process”** A current overview on the steps to getting published 26th January 2022
- **Bootcamp Participant** – **Microsoft 365 Training Bootcamp** held, Nov 15 & 16, 2022
- **Bootcamp Participant** – **Microsoft Artificial intelligence (AI) in education**, Training Bootcamp held, Nov 17 & 18, 2022
- Attended the Workshop by **WILEY – Dissecting the Scholarly Publishing Process**, 26 January, 2022
- **International Symposium on “Digital Technologies for the Future World”** January 19-20, 2022 **OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTECH)**
- **Shield of Honor** – by **Calcix International**, on mentoring the **Calcix Intl. Gemology** on January, 13th 2022
- **Certificate of Appreciation** – by **Calcix International**, on Gemology Awareness held on January, 13th 2022
- **Certificate of Appreciation as Organizer** – ONE DAY International conference on “**Gender Equality for a Sustainable tomorrow**” jointly organized by **Sindh Employees Social Security Institution**, held on 08 March 2022
- **Technical Organizer** – Seminar entitled “**Promoting inclusive growth in the middle east and North Africa**” jointly organized by the Applied Economic Research Center(AERC) and International Monetary Fund(IMF) February – 2023
- **Participated as National Judges** – **National Ideas Bank(NIB-2023)** held at SSUET Karachi, 20th March 2023
- **Certificate of Recognition** – by **CommTEL Systems** for “**Implementing VideoCon. Infrastructure**” under SIREN Project Phase-I
- **International Symposium on “Digital Technologies for the Future World”** January 19-20, 2022 organized by **OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTECH)**
- **Technical Organizer - International Conference on “Transformation of Ideas in Pakistan’s Political Culture (ICTIPPC-24)** February 20-21, 2024

- **Participant** – Workshop entitled "**Outer Space, Cyber Space & Satellite Law**" held on 26 May, 2024
- **Presenter** – the research presentation for “**Augmenting the Resilience of Technology Infrastructure in Megacities: Navigating Technical Complexities and Strategically Implementing Multi-layered Future-Ready Solutions**” in the conference entitled “**NCMMC 2024 - National Conference on Managing Megacities 2024**” held on 14th & 15th May, 2024
- **Convener** – The Web management committee for Convocations in University of Karachi on July 2024
- **Participant** – Workshop “**Web Security**” held at FAST-NUCES on 22 June, 2024
- **Participant** – Workshop entitled "**Fundamentals of Deep Learning**" (*by NVIDIA*), held on 18th Feb 2025 at Telecommunication Engg: Dept., NED University of Engineering and Technology
- **Presenter** – A research paper, entitled “**AI-Powered Botnet Detection and Mitigation: Advancing Network Security Through ML and Federated Intelligence**” in 2-days **International Conference** held on 15th & 16th April, 2025 at DHA Suffa University, named **3rd International Conference on Information Science & Communication Technology 2025 (ICISCT-2025)**
- **Accreditation Expert Training** – Selected by the **National Accreditation Council for Technical and Vocational Stream(NAC-TVS)**, 2-days extensive technical training program aimed for institutional quality assessment and accreditation across **TVET institutions in Sindh region, April 10–11, 2025** under **NAVTTTC Headquarters**
- **Participant** – Workshop “**Navigating Research with Purpose**” workshop by **Prof. Tillal Eldabi, University of Bradford (UK)**, at **NED University**, on February 3, 2025
- **Participant** – at “**ICDTM-2025, International Conference on Digital Transformation in Management**(The way forward to sustainable practices in Global context)” held at **KIBGE(UoK)**, on 19-20 February, 2025
- **Member Support Committee** – International Conference on Marine Biodiversity, Socio-environmental aspects & Technology, Conference Days: **April 28 – 30th, 2025** held at Chinese Teachers Memorial Auditorium, University of Karachi
- **Participant** – **Workshop, IEEE Learning & Research for Pakistan students & researchers: An Overview of IEEE Xplore Digital Library** dated 24th June, 2025
- **Participant** – **Training, 2-Days Sustainable Developmental Goals (SDGs) Intensive Training**, held on 14th & 15th June 2025
- **Participant** – **Conference, IBA CICT & Yottabyte | Beyond the Firewall 3.0** organized by NCERT, in IBA Karachi on 24th June, 2025
- **Participant** – Quantitative Methods Using SPSS of the “**Research Methodology Course – 2025**” from Center for Learning and Teaching(CLT), Forman Christian College
- **Participant** – **SANS ICS Summit Solutions Track 2025 | June 16th, 2025**
- **Participant** – **5 Days Training** entitled “**Enhancing Workplace Efficiency and Professional Skills**” at SYM Professional Development Center held 23rd June 2025 – 27th June 2025
- **Participant** – **Certificate Course on Applied Biomedical AI** organized by OIC-COMSTECH(Ministerial Standing Committee on Scientific and Technological Cooperation) course jointly organized by the **OIC-COMSTECH and Ningbo University** held on 23rd - 31st July & 11th - 27th August, 2025
- **Participant** – **Workshop on Securing Web Assets with Cloudflare** in ITCN Asia-2025. The specialized training by Server4Sale on behalf of Cloudflare on September 24th 2025, held at the 26th ITCN Asia, Expo Center Karachi

Distinctions / Awards:

- **First Position** in whole province of Sindh Calligraphy and Painting (*Category: Sketching/Markers*)
Year - 2001

- **Second Position** in whole province of Sindh, Calligraphy and Painting (*Category: Oil / Tube paints and Sketching*)
Year – 2000
- **Teacher Assistantship** in SSUET consecutively for two years(during academics), 2006 & 2007
- Got **Scholarship** in MS(CE) Program for 2nd and 3rd semester 2012

Memberships / Societies:

- ✓ **Member – Technical Committee PSQCA – (ICT-TC6)**
- ✓ **International Member - Internet Society (ID: 2177670, Region: Asia-Pacific)**
- ✓ **Member – PEC (Pakistan Engineering Council)**
- ✓ **Permanent Member – IEP (Institution of Engineers Pakistan)**
- ✓ **Young Professional – IEEE (Institution of Electrical and Electronic Engineers, USA)**
- ✓ **Member – Computer Society IEEE (Institution of Electrical and Electronic Engineers, USA)**
- ✓ **Technical Workshop Coordinator for Year 2016 – YP, Karachi Section, IEEE, Pakistan**
- ✓ **Young Professional – Technical Visit Organizer for Year 2017, Region 10(Asia Pacific), IEEE, Int.**
- ✓ **Young Professional – Technical Event Organizer for Year 2018, IEEE Karachi Section, IEEE Int.**
- ✓ **Young Professional – Emerging Leader for Year 2019, IEEE Karachi Section, IEEE Int.**
- ✓ **Associate Member – AMUOBA (Aligarh Muslims University Old Boys Association), Pak**
- ✓ **Member – Lions Club International**
- ✓ **Member – RISC V, International Open Standard Instruction Set Architecture – Switzerland**
- ✓ **Member – IMRTC (International Management Research & Technology Consortium – USA**
Membership ID : IndApp_RT_590250)
- ✓ **Member – DVS, Data Visualization Society**

Expert Engagements:

- ✓ **Central Point of Contact (PoC)**
Program: Google Career Certificate Scholarship Program
Launched by: Google, in collaboration with **Tech Valley Pakistan** and **Information Science and Technology Department, Government of Sindh**
Responsibilities: Spearheaded institutional coordination and management of digital infrastructure deployment. Providing strategic oversight for the program’s execution, for facilitating the distribution of **2,000 industry-recognized scholarships** based on high-demand market-ready skills such as **Data Analytics, UX Design, Project Management, Cybersecurity** within the academic ecosystem.

Research:

- ✓ Research article entitled: **“Augmenting the Resilience of Technology Infrastructure in Megacities: Navigating Technical Complexities and Strategically Implementing Multi-layered Future-Ready Solutions”** in the conference entitled **“NCMMC 2024 - National Conference on Managing Megacities 2024”** held on **14th & 15th May, 2024** at the Department of Public Administration, Faculty of Administrative and Management Sciences, University of Karachi
- ✓ Research Paper, entitled **“AI-Powered Botnet Detection and Mitigation: Advancing Network Security Through ML and Federated Intelligence”** in 2-days **International Conference** held on **15th & 16th**

April, 2025 in “3rd International Conference on Information Science & Communication Technology 2025 (ICISCT-2025)” held at DHA Suffa University, Karachi

Honorary Entitlement(s):

- ✓ **Chairman Technical Committee for “ICT-TC6” (ISO/IEC-JTC1/SC 17)**
Cards & Security Devices for Personal Identification
IT & ICT Division
Directorate of Standardization
Standards Development Centre (SDC)
Pakistan Standards & Quality Control Authority
Ministry of Science and Technology
Government of Pakistan

- ✓ **Judge**
IT Sector
National Idea Bank 2k23
Among a pool of 300 highly qualified, world-class experts from across the Country and abroad. Voluntarily helping new generation to fulfill their dreams by solving problems of national significance.
Ministry of IT and Telecommunication
Government of Pakistan

- ✓ **Accreditation Expert**
TEVT Sector
@National Accreditation Council for Technical and Vocational Stream(NAC-TVS)
Enlisted in the National Expert Pool of the NAC-TVS to support institutional quality assessment and accreditation of TVET institutions in the Sindh region
NAVTTTC Headquarters
Government of Pakistan

References:

- **Prof. Dr. Khalid M. Khan (Tamgha-e-Imtiaz)**, Senior Prof. ICCBS, University of Karachi
- **Prof. Dr. Hilal Qureshi**, Chairman CS Department, Aligarh Institute of Technology
- **Assoc. Prof. Abdul Khaliq Khan**, Director Student Affairs, CED/SSUET

(Address and phone numbers may be provided when required)