

SHAH FAISAL

ADDRESS: Mohalla khankori, Village kota, District swat KPK, Pakistan.

Email: faisalyosufzay@outlook.com

Phone: +92-333-9475972



Education

BS Computer Science (COMSATS university , Wah Campus, Pakistan)

MS Software Engineering (Xinjiang university Urumqi, CHINA)

PGD (PE&TM) (Riphah International University, Islamabad, Pakistan)

COBE (In progress) (Riphah International University, Islamabad, Pakistan)

About Me

I am Highly skilled and experienced software engineering professional with a master's degree in software engineering. With a robust background in both educational and industrial settings, I possess a wealth of expertise in software architecture, software development, project management, and consultation. My career has spanned various domains, including working on diverse software architecture projects, designing complex systems, and optimizing legacy systems for enhanced performance. I have provided valuable consultation services to numerous firms, leveraging my architectural knowledge to drive successful project outcomes. Additionally, I am passionate about sharing knowledge and have conducted seminars and workshops on various software architecture principles and best practices. My experience extends across both public and private sector projects, and I am known for delivering results with a strong commitment to timelines and architectural quality.

Specialization Area

Software Project Management

Hand on Practice

- Project Planning and Scheduling
- Agile and Scrum Methodologies
- Risk Management
- Stakeholder Communication
- Resource Allocation
- Quality Assurance and Testing
- Budgeting and Cost Control
- Change Management
- Project Management Tools
- Documentation and Reporting

- Conflict Resolution
- Client Relationship Management

Methodologies

- Waterfall Methodology
- Agile Methodology (e.g., Scrum, Kanban)
- DevOps
- Rapid Application Development (RAD)
- Lean Development
- Test-Driven Development (TDD)
- Extreme Programming (XP)
- Dynamic Systems Development Method (DSDM)
- Spiral Model
- V-Model (Validation and Verification Model)
- Big Bang Model

Architectures

- Layered Architecture
- Client-Server Architecture
- Microservices Architecture
- Service-Oriented Architecture (SOA)
- Model-View-Controller (MVC)

Skills and abilities

Software Architect | Senior Software Engineer

Technical Skills:

- **Programming Languages:** Proficient in C, C++, Java, C#, and JavaScript for robust software development.
- **Software Design Patterns:** Strong knowledge of design patterns for scalable and maintainable architectures.
- **Architecture Styles:** Expertise in microservices, monolithic, serverless, and event-driven architectures.
- **Database Management:** Skilled in SQL and NoSQL database design and optimization.
- **DevOps Practices:** Proficient in CI/CD pipelines, automation, and infrastructure as code.

Problem-Solving & System Design:

- **Analytical & Critical Thinking:** Ability to break down complex problems and make data-driven decisions.
- **Architectural Design:** Expertise in system design, data flow, and technology selection.
- **Scalability & Performance:** Designing systems for horizontal/vertical scaling and optimizing performance.

- **Reliability & Resilience:** Ensuring fault-tolerant and high-availability system architectures.

Leadership & Project Management:

- **Team Leadership:** Guiding development teams and fostering a collaborative environment.
- **Project Oversight:** Managing timelines, resources, and Agile methodologies (Scrum).
- **Technical Documentation:** Creating clear, concise architectural documentation and design decisions.

Soft Skills & Business Acumen:

- **Effective Communication:** Engaging with stakeholders and presenting technical concepts.
- **Decision-Making:** Balancing trade-offs and making informed architectural decisions.
- **Time Management:** Meeting deadlines while maintaining quality standards.
- **Business Alignment:** Ensuring architectural decisions align with strategic business objectives and cost constraints.

Continuous Learning & Adaptability:

- Keeping up with emerging technologies and best practices to enhance software architecture and system efficiency.

Professional Experience

1. Project Manager Faisitech Engineering Complex PVT LTD swat, KPK, Pakistan 2019- 2023

Role and responsibilities

Led engineering projects from inception to completion as Project Manager at Faisitech Engineering Complex. Oversaw planning, execution, and delivery, ensuring projects met quality standards within budget and timeline constraints. Collaborated with stakeholders to identify requirements and address challenges, contributing to the company's growth and reputation for excellence.

2. Consultant architect at CodeSolution, Chakdara, Lower DIR, Pakistan 2015 till date

Role and responsibilities

Engaged as a Consultant Architect at CodeSolution, Chakdara, Lower DIR, Pakistan, where I provided expert guidance and architectural solutions to enhance the development of software projects. Collaborated closely with development teams to design scalable and efficient software architectures, ensuring alignment with project requirements and industry standards. Offered strategic advice and recommendations to optimize system performance and reliability, contributing to the successful delivery of software solutions.

3. Lecturer university of swat , KPK, Pakistan 2014 – 2016

Role and responsibilities

Served as a dedicated Lecturer at the University of Swat, KPK, Pakistan, where I imparted knowledge and expertise in Software Engineering to undergraduate students. Developed and delivered engaging lectures, seminars, and practical sessions to facilitate student learning and comprehension. Designed

course materials, assessments, and examinations to evaluate student progress and achievement. Provided academic guidance and support to students, fostering a conducive learning environment for their intellectual growth and development.

4. Lecturer Riphah International university, Malakand Campus, KPK, Pakistan 2022 till date

Role and responsibilities

Teaching and mentoring students in Software Engineering, facilitating their academic growth and development through engaging lectures and interactive learning activities. Contributing to the university's educational mission by designing curriculum, assessments, and projects that align with industry standards and promote student success.

5. Member Industrial board of advisory Pak-Austria Fachhochschule Institute of Applied Sciences and Technology 2023 till date

Role and responsibilities

Providing strategic guidance and industry insights to Pak-Austria Fachhochschule Institute of Applied Sciences and Technology. Collaborating with academic faculty and administrators to ensure curriculum relevance and industry alignment. Offering recommendations on emerging trends, technologies, and skills required in the job market to enhance the institute's educational offerings and student outcomes.

6. Incharge FYP (Final year project) Riphah International university, Malakand Campus, KPK, Pakistan 2023 till date

Role and responsibilities

Overseeing the coordination and management of final year projects at Riphah International University's Malakand Campus. Facilitating student engagement, guiding project development, and ensuring adherence to academic standards and deadlines. Providing mentorship and support to students throughout the project lifecycle, from topic selection to project completion and presentation. Collaborating with faculty members to evaluate project proposals and assess student performance.

7. Member BOS (board of study) Riphah International university, Malakand Campus , KPK, Pakistan. 2023 till date

Role and responsibilities

Contributing expertise and insights as a valued member of the Board of Study at Riphah International University's Malakand Campus. Participating in curriculum development, program review, and academic policy formulation to ensure the quality and relevance of educational programs. Engaging in discussions and decision-making processes to enhance the overall academic experience and meet institutional objectives.

8. Focal person Ignite (Ignite National Technology Fund) Pakistan. 2023 till date

Role and responsibilities

Serving as a dedicated point of contact and liaison between Ignite National Technology Fund and relevant stakeholders. Taking charge of communication and coordination efforts to facilitate collaboration and partnership opportunities. Acting as a representative of Ignite to promote its initiatives and support the advancement of technology and innovation in Pakistan.

9. Member TRC (Thesis Review committee) Riphah International university, Malakand Campus, KPK, Pakistan 2024 till date

Role and responsibilities

Participated as a valued member of the Thesis Review Committee, contributing insights and expertise to evaluate and provide feedback on student research projects. Played a crucial role in maintaining academic standards and ensuring the quality of research output at the university level.

10. Final year project Supervisor Riphah International university, Malakand Campus, KPK, Pakistan

Role and responsibilities

Guided and mentored final year undergraduate students in their capstone projects, providing valuable direction and support throughout the project lifecycle. Offered expertise in project management, technical guidance, and research methodologies to ensure successful project completion and academic excellence.

11. Site Admin (Riphah international university malakand campus) coursera.

Role and responsibilities

Managed and oversaw the Coursera platform at Riphah International University Malakand Campus, ensuring smooth operation and effective utilization of online learning resources. Handled user accounts, course enrollments, and technical issues to facilitate seamless access to educational content for students and faculty members. Collaborated with stakeholders to enhance the platform's functionality and optimize its usage for academic purposes.

12. Incharge students exchange program (Korea, Malaysia and Turkey) Riphah international university Malakand, KPK, Pakistan. Jun 2024 till date.

Role and responsibilities

Overseeing the student exchange program with partner universities in Korea, Malaysia, and Turkey, facilitating cross-cultural academic opportunities. Responsible for program administration, coordinating exchanges, managing student placements, and ensuring a smooth transition for participants. Act as the main point of contact for students, fostering collaboration and managing all aspects to promote an enriching exchange experience.

Award	Purpose
Appreciation letter	Recognition for Voluntary Digital Skills Transformation Efforts - I have received this appreciation letter from the Pakistan Drugs Rehabilitation Council and the KPK Welfare Health Service in recognition of my voluntary efforts and dedicated service from April 2021 to December 2022. During this period, I provided invaluable digital skills training, including digital marketing, SEO, ecommerce, and graphic design, to patients, thereby empowering them to thrive in the digital age. - My selfless commitment to uplifting others and making a positive impact in the community has earned you this well-deserved recognition.
Certificate + Letter of appreciation	Volunteer Work at Hunrmand Pvt Ltd: Volunteered time and expertise to lead digital skill programs, highlighting a commitment to social responsibility and community development.

	- Equipped 92 individuals with valuable digital skills, fostering inclusivity and empowerment among special individuals. - Demonstrated mentorship and coaching abilities, helping participants unlock their full potential and pursue aspirations in the digital realm.
Certificate + Letter of appreciation	Successful Project Management at CodeSolution Pvt Ltd: - Led the successful completion of three mega projects within defined timeframes and budgets, showcasing adept project management skills. - Implemented strategic planning, effective resource allocation, and rigorous project management methodologies to ensure project success. - Demonstrated dedication to excellence and capacity to navigate complex challenges, delivering results that exceeded expectations.
Certificate	Course author on Coursera (Course name Business process engineering) - Developed and authored the "Business Process Engineering" course, focusing on transforming organizational operations for optimal efficiency and effectiveness. - This course covers fundamental principles and methodologies, guiding learners through process analysis, redesign techniques, and implementation strategies that drive business success. Through interactive modules, practical case studies, and real-world applications, the course equips students with skills to streamline processes and enhance productivity in various business contexts.

Workshop/Seminar Delivered

Workshop/Seminar	Topic	Audience
Seminar	Project Management for legacy system	Students + Faculty members
Workshop	Perspective on software and architecture in an industrial context	Students + Faculty members
Seminar	Trends in social media	Students + Faculty members
Seminar	The role of software engineering in software construction	Students + Faculty members
Seminar	Agile project Management methodologies in software project management	Students + Faculty members

Professional Certification

Foundations of Project Management

Organization : Google

Verification Link: <https://www.coursera.org/account/accomplishments/verify/5DGB7YA8W5SE>

Project Initiation: Starting a Successful Project

Organization name : Google

Verification Link: <https://www.coursera.org/account/accomplishments/verify/TVUKLSTJVANJ>

Project Planning: Putting It All Together

Organization name : Google

Verification Link: <https://www.coursera.org/account/accomplishments/verify/XYQBYVFS88VH>

Project Execution: Running the Project

Organization name : Google

Verification Link: <https://www.coursera.org/account/accomplishments/verify/Q735VUM6K9UL>

Agile Project Management

Organization name : Google

Verification Link : <https://www.coursera.org/account/accomplishments/verify/7RQR7YKKKY3H>

Introduction to Project Management

Organization name : IBM

Verification Link : <https://www.coursera.org/account/accomplishments/verify/8EUA75JEVDEN>

Practice Exam for CAPM Certification

Organization name : SkillUp EDTECH

Verification Link: <https://www.coursera.org/account/accomplishments/verify/GZUM36TNWWBW>

Agile Software Development

Organization name : University of Minnesota

Verification Link: <https://www.coursera.org/account/accomplishments/verify/R53C9B4W2EWR>

Managing an Agile Team

Organization name : University of Virginia Verification

Link: [coursera.org/verify/5ERK33L9L46P](https://www.coursera.org/verify/5ERK33L9L46P)

SAP Professional Fundamentals

Organization name : SAP

Verification Link: <https://www.coursera.org/account/accomplishments/verify/Q9AW6Z9VZ49D>

Understanding the Enterprise Systems Environment

Organization name : SAP

Verification Link: <https://www.coursera.org/account/accomplishments/verify/UGG5XRRRH7CJ>

Becoming an SAP Professional

Organization name : SAP

Verification Link: <https://www.coursera.org/account/accomplishments/verify/SY599L3ZYK6Y>

Blockchain Basics

Organization name : University at Buffalo

Verification Link: <https://www.coursera.org/account/accomplishments/verify/MNTYCN2EJC65>

Ethical Hacking Essentials (EHE)

Organization Name: EC-Council

Verification Link: <https://www.coursera.org/account/accomplishments/verify/CGWF2YZMENZX>

Network Security

Organization Name: CISCO

Verification Link: <https://www.coursera.org/account/accomplishments/verify/NSR6WLKYJKZ9>

Foundations of User Experience (UX) Design

Organization Name: Google

Verification Link: <https://www.coursera.org/account/accomplishments/verify/NJZFRQYM6T67>

Start the UX Design Process: Empathize, Define, and Ideate

Organization Name: Google

Verification Link: <https://www.coursera.org/account/accomplishments/verify/XBJGR64VMXQ3>

Prompt Engineering

Organization Name: Vanderbilt University

Verification Link: <https://www.coursera.org/account/accomplishments/verify/XFDFZZBJBXYL>

Programming Fundamentals

Organization Name: University of California, Santa Cruz

Verification Link: <https://www.coursera.org/account/accomplishments/verify/HHKB2WE4CXYX>

Project Completed

1. **Project: I'CAST (International center for Applied science and technology) - Software Architect**
2. **Project Lead for the Learning Management System (LMS) project at the University of Swat**
3. **Position as a System Engineer for the CARVALLEY project in Pakistan:**
4. **Project Lead for the ISP (Internet Service Provider) project at AirTouch Pakistan**
5. **Lead Architect for Arzan.pk, a Pakistan-based e-commerce online store in 2021**
6. **Project Lead for (Refactoring) MTS Pvt Ltd, a Pakistan-based testing agency (Meta Testing Services)**
7. **Project Lead in BCMT Associates Pakistan.**

Research publications

- 1: “Load Balancing of Heuristic Algorithms on the basis of Performance Metrics in Cloud Computing” International Journal of Computer Trends and Technology (IJCTT). 10.14445/22312803/IJCTT-V67I3P109
- 2: “New Approach toward Requirements Analysis at Elicitation Phase in Software Engineering” International Journal of Computer Trends and Technology (IJCTT). 10.14445/22312803/IJCTT-V67I3P105.

References:

Dr Shujat Ali (Associate professor at University of Swat, KPK, Pakistan) Contact No: 03139906366

Dr Waqar Mahmood (Professor at Pak-Austria Fachhochschule Institute of Applied Sciences and Technology) Contact No: 03005220513

Dr Mushtaq Ali (AP/ Head of the department Riphah institute of informatics) Riphah International university malakand campus, lower Dir, KPK, Pakistan Contact No: +92 349 5630104