MUHAMMAD TALHA BIN RAUF

Director Project Management | Agile Leadership | AI/ML Architect

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Islamabad, Pakistan



SUMMARY

I am a passionate and growth-focused technology leader with over 8 years of experience in various facets of technology, from product development to team leadership. My expertise lies in innovating impactful tech solutions across various sectors. I have a proven track record of turning abstract ideas into market-ready products as well as driving team success, maximizing efficiency, and ensuring compliance with industry standards

EXPERIENCE

Director Project Management

Codexter Labs

04/2024 Remote

Codexter Labs is a single-vendor IT Solutions Provider with expertise in end-to-end product development lifecycle, commercialization, and IT Support.

- Manage and direct the complete product development lifecycle (PDLC) from ideation to post-launch for B2B SaaS platforms and AI workflows.
- As Director of Project Management, I manage end-to-end development, maintenance and support, and installation, ensuring quality, technical excellence, and timely delivery.
- I drive all aspects of execution using Agile methodologies (Scrum/Kanban), including conducting daily standups, facilitating sprint reviews, and owning the product backlog.
- I orchestrate alignment across engineering, design, and sales by leading regular stakeholder meetings and making data-informed decisions to meet both market needs and operational requirements.

Chief Technology Officer

Revive Medical Technologies (RMT) Inc

11/2024 - 09/2025 Florida, USA

RMT is a cross-functional service provider in healthtech sector providing R&D services, regulatory consultation and contract manufacturing services.

- Led the end-to-end innovation process for software-based medical devices
- Oversaw planning, design, development, and testing of digital health solutions
- Transformed innovative concepts into impactful medical technologies

Director Software Division

Revive Medical Technologies (RMT) Inc

08/2023 - 10/2024 Florida, USA

RMT is a cross-functional service provider in healthtech sector providing R&D services, regulatory consultation and contract manufacturing services.

- Developed and optimized embedded software systems for medical devices
- Collaborated with AI engineers and data scientists to integrate ML algorithms
- Contributed to firmware development and system integration of healthcare devices

Project Team Lead - Production Enhancement Task Force

N-ovative Health Technologies Pvt Ltd (NHTPL)

11/2022 - 07/2023 Islamabad, PK

RMT is a cross-functional service provider in healthtech sector providing R&D services, regulatory consultation and contract manufacturing services.

- Leveraged data science and machine learning for strategic decision-making
- Designed algorithms for predictive maintenance and operational efficiency
- Provided actionable insights and strategic proposals for business growth

Process Specialist

N-ovative Health Technologies Pvt Ltd (NHTPL)

11/2021 - 07/2023 Islamabad, PK

A health technology company focusing on innovations in medical devices

- Managed production of Class-III Medical Devices adhering to ISO 13485
- Implemented quality assurance procedures and OV compliance frameworks
- Conducted training sessions for new hires and existing team members

Officer In-Charge

Medical Devices Development Center (MDDC)

08/2021 - 10/2021 Islamabad, PK

A research center focusing on medical devices and technology

- Oversaw design and development of electromedical devices
- Managed regulatory approvals for electro-medical devices
- Implemented ISO standards during development

CERTIFICATION

Stanford University, California, US

Professional Certification in Artificial Intelligence

IBM

Professional Data Scientist

KEY ACHIEVEMENTS

Research Excellence Award

Received the Research Excellence Award for outstanding contribution in advancing digital forensics at TU Wien

Distinguished Technologist

Recognized as Distinguished Technologist by the Government of Pakistan for contributions to health technologies

SKILLS

Agile, Product Lifecycle Management, PLM, SDLC, STLC, AI/ML Architecture, React, Node JS, AWS, Azure, Cybersecurity, Docker, Embedded C, Encryption, FDA, CE, Forensics, Google API, HIPAA, IBM, LabVIEW, Linux, NLP, OpenCV, PyQt, Python, PyTorch, QMS, Tensorflow, React Native, RTOS, STM32, OpenAI, AI, GPT, Restful API

PROJECTS

CLARA AI Suite

Managed and developed end-to-end development lifecycle for an AI suite that automates and improves organization operations

- Installation & Setup in 4 organizations within first quarter of launch
- Migration of organization's ~12 year data from ERP to Clara AI

Telestroke Monitoring Platform

Telehealth platform for post-operative monitoring

- Created a telehealth platform for monitoring stroke patients
- Included features such as automated scheduling and AI-enabled research assistant

Digital Dermatoscope

Device for assisting in skin disease diagnosis

- Developed a digital dermatoscope for disease diagnosis
- Powered by Artificial Intelligence to fast track the diagnostics
- Provided cloud storage and image processing filters for enhanced image analysis

EXPERIENCE

Technical Training Officer

Medical Devices Development Center (MDDC)

10/2020 - 07/2021 Islamabad, PK

A research center focusing on medical devices and technology

- Performed embedded system testing in compliance with medical device QA standards
- Contributed to the N-Saviour Ventilator System as Design Engineer
- Managed the complete Software Development Life Cycle (SDLC)

Research Fellow

Technische Universität Wien

09/2019 - 05/2020 Vienna, AUSTRIA

A leading university in Austria focusing on technology and research

- Contributed to development of the Neural Imaging Pipeline and other projects
- Developed algorithms for camera signature preservation

EDUCATION

Masters in Computer Science

National University of Sciences and Technology (NUST)

08/2025 - Present Islamabad, PK

Bachelors in Electrical Engineering

National University of Sciences and Technology (NUST)

04/2016 - 06/2020 Islamabad, PK

PROJECTS

QuizMD.ai

Web application for generating quizzes for medical education

- Developed a web application for quiz generation from medical lecture notes
- Supported NLP processing to enhance user engagement

BP.ai

Algorithm for personalized hypertension treatment

- Predicts hypertension drug dosage using AI algorithms
- Optimized models for hardware and software efficiency

3StrokeAnalysis.io

AI-powered DICOM viewer for stroke evaluation

- Built an AI-powered viewer for DICOM images of strokes
- Enabled stroke type classification and 3D analysis for evaluation

Cardi/o

Non-contact health measurement device development

- Worked on a patented healthcare project leveraging non-contact measurement
- Ensured IEC 62304 compliance

LifeSavr

Life-saving device based on proprietary technology

- Developed a life-saving device for opioid overdose prevention
- Generated alerts for timely intervention

N-Saviour - Pakistan's FIRST Medical Ventilator

Development of Pakistan's first medical ventilator

- Designed and developed a fully specified ventilator
- Ensured compliance with performance and safety standards

Powered Air-Purifying Respirator (PAPR)

Respiratory device for medical practitioners

- Developed a battery-powered air-purifying respirator
- Addressed FDA's post-COVID restrictions on N-95 usage

Alternate Controller Enabled (ACE) Infusion Pump

Infusion pump development for medical purposes

- Planned, designed, and oversaw end-to-end development lifecycle
- Ensured compliance with ISO 62304, ISO 14971 and HIPAA

Tech-Air

Crash detection system for bike riders

- Created a crash detecting airbag deployment system
- Collaborated with NUST for safety technology application