

MUHAMMAD UMER ABBAS

+92-309-9021396 ◊ Rawalpindi, Pakistan

muhammadumerabbas2005@gmail.com ◊ [linkedin.com/in/mraum](https://www.linkedin.com/in/mraum) ◊ github.com/aum1618

SUMMARY

Software Engineer specialized in **React Native** and the **MERN stack**. Ranked in the **Top 3% globally** on TryHackMe, bringing a **security-first, AI-enabled** mindset to software development.

SKILLS

Languages: JavaScript (ES6+), **TypeScript**, **C++**, Python, SQL, PHP.

Frameworks/Tools: React Native, React.js, Node.js (Express), Redux, FFmpeg.

Cloud/BaaS: **PostgreSQL**, **Firebase**, **Supabase**, **AWS Amplify**, MCP (Model Context Protocol).

DevOps/Ops: **Git**, **CI/CD Pipelines**, **Docker**, **App Center**, **Mixpanel**, **AppsFlyer**

EXPERIENCE

Software Engineer (Intern → Full-Stack)

June 2023 – Sep 2025

Vorksol

Rawalpindi, Pakistan

- Developed and scaled **React Native** applications to **10,000+ active users**, ensuring high performance and **99.9% crash-free sessions** across iOS and Android.
- Engineered end-to-end mobile solutions using **Node.js (Express)** and **PostgreSQL**, while leveraging BaaS platforms like **Firebase**, **Supabase**, and **AWS Amplify**.
- Managed the complete app lifecycle, including **App Store/Play Store** publishing and automated monitoring using Post-op services like **App Center**, **Mixpanel**, and **AppsFlyer**.

Freelance Software Engineer

Dec 2023 – Present

- Resolved complex bugs and delivered new features and **POCs** for international clients across diverse Tech stacks.
- AI Test Generator:** Built a script using AI to generate test cases for **Node.js** projects; integrated into **CI/CD pipelines** to automate Code validation before production deployment.
- EMR Dashboard:** Architected an AI-based medical dashboard utilizing **MCP servers** to automate medical note processing and workflow management.
- AI Text Editor:** Built a custom IDE on a **VS Code fork**, implementing **context-aware code generation**, refactoring, and proprietary extension features.

PERSONAL PROJECTS AND CONTRIBUTIONS

Takhleeq — Automated Content Generation Factory

Python, FFmpeg, Meta APIs

- Built an autonomous **Content Factory** that handles data scraping, **FFmpeg-based media processing**, and automated distribution to social media platforms using an independent worker inventory system enabling **100% uptime** and year-long self-sustaining content queues.

Gitlite — Version Control System

C++

- Engineered a functional Version Control system from scratch in **C++** implementing branching, merging, and committing. Ensuring absolute data integrity with cryptographic hashing.

Illogical Impulse — Hyprland Configuration

Linux, Quickshell

- Implemented an $O(1)$ index-based file search enabling instantaneous directory traversal directly from the search bar.

React Native Animated Numbers

React Native

- Improved the performance and optimized the bundle size by refactoring core animation logic and stripping unnecessary peer dependencies.

EDUCATION

Bachelor of Computer Science, FAST-NUCES Islamabad

2023 – 2027

FSc (Pre-Engineering), PAF College Sargodha

2020 – 2022