

Muhammad Zaman Khan

Software Engineer

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SUMMARY

Full Stack Developer and Team Lead specializing in MERN stack development with proven track record of delivering enterprise-level applications. Led development of Digital Governance Solutions serving 50,000+ users across 73 institutions, earning 1st Place in Final Year Project evaluation. Expertise in building scalable web applications and React Native mobile apps with focus on performance optimization, security implementation, and production deployment. Strong leadership experience managing complete software development lifecycle from requirements analysis to successful product launch.

SKILLS

Programming Languages C, C++, JAVA, JavaScript, Python, TypeScript
Web Development Frameworks Node.js, Express.js, React.js
Mobile App Development React Native
Database Technologies MongoDB, SQL, MySQL, PostgreSQL, Supabase
Version Control Git, GitHub
Problem Solving / Design skills Problem Solving, Adaptability, UI, UX, Figma

EXPERIENCE & PROJECTS

Mern Stack Developer, React Native Developer Jul '24 — Jul '25
Punjab Worker Welfare Fund (PWWF) Lahore, Pakistan

Digital Governance Solutions | E-Letters

- Developed and deployed a comprehensive MERN-stack digital diary, replacing paper-based letter tracking processes.
- Implemented RBAC with granular permissions and department-specific routing (e.g. Finance Directors → Assistants).
- Created dynamic UI with contextual column adjustments based on user roles and implemented status tracking (sent/seen).
- Technologies:** MongoDB, Express.js, React.js, Node.js, JWT Authentication, RBAC

Academia Connect | Educational Management Platform [Link](#)

- Designed and developed a scalable full-stack Portals serving 73 schools with 50,000+ students and thousands of teachers.
- Built multi-portal architecture: Admin portal (user management), School portal (scheduling, reporting, announcements), Teacher portal (attendance, class management), and Student mobile app (React Native).
- Implemented advanced features, including a dynamic analytics dashboard, an 8-profile monthly reporting system, attendance marking, and exam/transport schedule uploads.
- Developed cross-device (SSO) functionality ensuring secure session management across multiple devices.
- Technologies:** React Native, React, PostgreSQL, Supabase, EAS, JWT Authentication.
- Production Deployment:** Successfully deployed web application and published mobile app to production.

Wordpress Web Developer Mar '23 — Apr '24
Dermaplast Aesthetics Lahore, Pakistan
Develop a website for Appointments and bookings [Link](#)

AWARDS

1st Place - Final Year Project (Digital Governance Solutions) Jul '25

- Team Lead** on a 3-person group: defined requirements, designed architecture, and drove on-time delivery.
- Developed & deployed** multi-tenant React & Supabase portals (73 schools, 50K+ users) and an Expo-managed React Native app, complete with CI/CD pipelines (Vercel, GitHub Actions), RLS, real-time data, and secure auth.

ADDITIONAL PROJECTS

Video Streaming App (MERN Stack) [Link](#) Mar '24 — Jun '24

- Created custom APIs to facilitate data upload and retrieval between local devices and the server.
- Ensured efficient data handling and user interaction with the application.

Air Quality Index Prediction (Python) [Link](#) Sep '23 — Jan '24

- Engineered an Air Quality Index prediction model using Python.
- Leveraged a Kaggle dataset and implemented relevant Python libraries for data analysis and prediction.

Banking Management System (Java, JavaFX, SQL) [Link](#) Feb '23 — Jun '23

- Employed JavaFX for a user-friendly frontend interface and SQL for robust data storage.
- Integrated backend, frontend, and database components for seamless operation.

EDUCATION

Bachelor's in Software Engineering, Comsats University Lahore Sep '21 — Jul '25
Lahore, Pakistan
I.C.S in Physics, Punjab Group Of Colleges Sep '19 — Jun '21