

Usama Razzaq

Software Engineer

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SUMMARY

Results-driven Software Engineer with hands-on experience in full-stack web development, modern backend architectures, and relational database management. Proven track record of scaling reliable backend systems, designing structured APIs, and delivering responsive UIs. Passionate about writing clean code, mentoring peers, and solving complex algorithmic challenges.

RELEVANT EXPERIENCE

Software Engineer, Marham, Lahore, Pakistan

Jul 2025 — Present

- Collaborated with senior engineers to deploy an automated recovery workflow, eliminating manual recovery tasks and increasing the successful recovery rate from **60% to 80%**.
- Scaled the MERN-stack "AI Triage" application to streamline patient symptom discussions; executed data-driven A/B experiments that drove the triage-to-booking conversion rate from **6.07% to 8.10%** and the showed-up rate from **27% to 34%**.
- Integrated the Model Context Protocol (**MCP**) to seamlessly connect local **Claude** instances with live **MongoDB** environments hosted on **GCP**, **accelerating chat and data analysis** processes to observe chat behavior and drive product experiments.

Intern Software Engineer, Deline Media Group of Companies, Lahore

Feb 2025 — Apr 2025

- Developed full-stack web applications with dynamic and responsive interfaces using Angular on the frontend, while managing backend logic with Node.js.
- Implemented RESTful APIs in Node.js using Express and leveraged Sequelize ORM to manage the MySQL database, ensuring efficient data modeling and query optimization.
- Integrated JWT (JSON Web Tokens) for secure user authentication and authorization, enhancing application security.

PROJECTS

Volunteer Role Matching for Events Using Machine Learning, [Link](#)

- Designed a structured PostgreSQL schema to reliably manage and query event, volunteer, and role data.
- Built a responsive React frontend integrated with backend REST APIs, enabling dynamic role creation and seamless volunteer assignment.
- Delivered an intuitive and accessible UI using Tailwind CSS, improving user workflow efficiency through robust form validations and error handling.
- Integrated TensorFlow to build a recommendation engine that automatically analyzes thousands of volunteer profiles, suggesting the most suitable candidates to administrators based on specific role requirements, skills, and qualities.

SKILLS

Programming Languages : JavaScript, C/C++, TypeScript, PHP, SQL

Frontend : HTML, CSS, Bootstrap, Tailwind, Material UI, React, Angular, Next.js, React Redux

Backend : Node.js, Express.js, NestJS, Laravel, RESTful API

Databases : MongoDB, MySQL, PostgreSQL, Firebase

Version Control : Git, GitHub, Bitbucket

Soft Skills : Communication, Problem-Solving, Adaptability, Desire to Learn, Team Player

ACHIEVEMENTS AND COMMUNITY INVOLVEMENTS

- Technical Lead, Dev Weekends:** Mentored 10+ junior students in modern web technologies, providing hands-on training that led to 10-15 successful student project deployments.
- DSA Instructor:** Delivered comprehensive Data Structures and Algorithms lectures during Winter Bootcamp and Dev Weekends Fellowships, preparing classes of 50+ students for technical interviews.
- Algorithmic Problem Solving:** Maintained consistent continuous learning by solving 240+ algorithmic challenges on [LeetCode](#)

EDUCATION

University of Education, Lahore, Pakistan (Nov 2021 - May 2025)

- Bachelor of Science in Information Technology | **CGPA: 3.48**
- Awards:** 4-time Merit-Based Scholarship Holder; Prime Minister Laptop Scheme 2023