MUHAMMAD HAMZA KHAN

Junior Software Engineer | Full Stack developer

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SUMMARY

Software Engineering student with hands-on experience building scalable backend and full-stack web applications using Node.js, Express.js, Next.js, PostgreSQL, and Prisma. Experienced in designing REST APIs, authentication systems, AI-powered applications, and modern development workflows. Passionate about cloud infrastructure, containerization, deployment, and scalable AI systems. Seeking a Cloud Engineering Internship where I can contribute while expanding my expertise in cloud technologies and DevOps.

TECHNICAL SKILLS

Languages & Fundamentals: JavaScript (ES6+), TypeScript, Data Structures & Algorithms, OOP, DBMS

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Shadcn UI

Backend: Node.js, Express.js, REST API Development

Database: MongoDB, Mongoose

Testing & QA: Cypress, Selenium, Manual Testing, Regression Testing

Tools: Git, GitHub, VS Code, Postman, Agile/Scrum

Additional: RAG Pipelines, Vector Databases (Qdrant), Linux (academic), Burp Suite & OWASP Top 10 (academic)

EXPERIENCE

Software Engineer Intern | RFZ Digital | Feb 2026 - Present

- Developed and maintained responsive, scalable web application features using Next.js, React.js, TypeScript, and Tailwind CSS.
- Built reusable UI components following modern component-based architecture, improving maintainability and code reusability.
- Developed automated end-to-end test suites using Cypress and Selenium, streamlining regression testing and improving software quality assurance.
- Performed manual QA including bug reporting, edge-case identification, and test case documentation across sprint cycles.
- Collaborated in agile sprint cycles using Git and GitHub for version control and peer code reviews.

PROJECTS

HireMate | Next.js, Node.js, Express.js, Prisma ORM, PostgreSQL (Neon), JWT, Qdrant, AI Embeddings
- Built an AI-powered job search and application platform that matches candidates with relevant jobs using semantic search and vector embeddings.
- Developed secure backend APIs with JWT authentication, email verification, Prisma ORM, PostgreSQL, and scalable REST architecture.

RAG-Based Company AI Agent | Next.js, TypeScript, Qdrant, Cohere, Groq LLaMA 3.3 70B, Tailwind CSS
- Engineered a company AI assistant using a Retrieval-Augmented Generation (RAG) pipeline with Cohere embeddings, Qdrant vector search, and Groq LLaMA 3.3 70B.
- Built a modular full-stack Next.js application designed for enterprise scalability.

Student Management System | MongoDB, Express.js, React.js, Node.js, REST APIs
- Designed and deployed a full-stack MERN application with authentication, role-based access control, and CRUD operations.

EDUCATION

BS Software Engineering | PMAS Arid Agriculture University, Rawalpindi | Sep 2024 - Present

Relevant Coursework: Data Structures & Algorithms, DBMS, Object-Oriented Programming, Computer Networking, Software Engineering

HSSC (Pre-Engineering) | FBISE | 2022 - 2024

CERTIFICATIONS

- Generative & Agentic AI Training (Top Performer) - Cohort 11, Aug - Oct 2026 ,Pak Angels
- MERN Stack Development - 1st Position, Aridian Array Society, PMAS Arid Agriculture University (2025)
- Programming with JavaScript - Meta, Coursera (2025)