

KHATIJA ZAIDI

Software Engineer — Full-Stack Developer

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SUMMARY

Software Engineer and NED University graduate, currently a Junior Developer at Bitsframe building and deploying full-stack web applications end to end. Skilled in the MERN stack and Next.js, with hands-on experience in JWT authentication, RESTful API design, cloud deployment on AWS and Railway, automated testing (Jest, Mocha), and SonarQube. Experienced integrating machine-learning and LLM features into web platforms, with a focus on clean, maintainable architecture and production-ready delivery within Git-based teams.

PROFESSIONAL EXPERIENCE

Junior Developer — Bitsframe

May 2026 – Present

- Build responsive frontends with React.js and Next.js and develop and integrate RESTful APIs across the full stack.
- Implement authentication and database operations with Supabase and Firebase, managing data models, queries, and real-time updates.
- Own deployment and infrastructure: deploy on Railway and configure AWS servers, environment variables, and build pipelines.
- Troubleshoot and resolve production issues to keep releases stable, taking features from development through to live deployment.
- Collaborate in Git-based workflows through code reviews, debugging, and adherence to coding standards.

Full Stack Development Intern — 10Pearls Shine Program

Sep 2025 – Nov 2025

- Built a full-stack Notes App (React.js, Node.js, MongoDB) with secure authentication, CRUD functionality, and a rich text editor.
- Implemented Pino logging, exception-handling middleware, and unit testing with Mocha/Chai and Jest for code quality and reliability.

Backend Developer — EmpowerED Pakistan

Sep 2025 – Oct 2025

- Developed and integrated RESTful APIs connecting frontend pages with the backend for reliable data flow.
- Optimized MongoDB schemas — data modeling, insertion, and modification — to support new application features.

Data Visualization Intern — Excelerate

Mar 2025 – Apr 2025

- Analyzed Facebook ad-campaign data for GlobalShala's Superhero U project and built visualizations to optimize ad spend.

PROJECTS

- **COOlience — Data-Centre Cooling Optimization Platform (FYP)** — Led the ML and LLM components; built a Random Forest recommendation engine predicting optimal cooling techniques with explainable justifications, and an LLM advisory assistant grounding responses in simulation data. Integrated services into a React frontend and Python backend via REST APIs with a KPI dashboard (PUE, carbon, cost, water).
- **Notes Management Web Application (MERN Stack)** — Full-stack notes app with JWT authentication, RESTful APIs, structured logging (Pino), SonarQube analysis, and unit testing (Jest/Mocha).
- **Employee Management Dashboard** — Full-stack system (Next.js, JWT, MySQL) with role-based access, task workflows, a calendar dashboard, and real-time REST API updates.
- **Velora: AI Health Web App** — Full-stack wellness app (Next.js, Firebase Auth, Spline 3D) with interactive meal/exercise planners and an animated, HCI-guided UI.

SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Material-UI, Server-Side Rendering

Backend & Databases: Node.js, Express, MERN Stack, RESTful APIs, Supabase, Firebase, MongoDB, MySQL, PostgreSQL, JWT Authentication

Cloud & DevOps: AWS, Railway, CI/CD pipelines, environment configuration, production deployment & monitoring

Quality & Tooling: Git, GitHub, Jest, Mocha/Chai, SonarQube, structured logging (Pino)

Other: Power BI, data visualization

EDUCATION

NED University of Engineering and Technology — B.E. Software Engineering

2022 – 2026

Highbrow College — A-Levels (2 A's)

2020 – 2022

Shahwilayat Public School — O-Levels (2 A*'s, 5 A's)

2018 – 2020

HONORS

- Awarded a 100% scholarship for both AS and A2 Level exams in recognition of exceptional grades at O and AS Level.