

Muhammad Ataa Ur Rasool

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Experience

SharkStack

Apr. 2025 – Sep. 2025

Backend Engineer - Junior

- Designed and maintained scalable **RESTful APIs** using **Node.js** and **Express.js**
- Deployed and managed infrastructure on **AWS** using **EC2**, **S3**, and **Cloudflare R2**, with **AWS CLI** for command-line operations
- Configured **Nginx** for hosting management, reverse proxy, SSL termination, and load balancing of backend services
- Orchestrated server-side tasks with **Temporal workflows**, enabling reliable distributed background processing
- Integrated **LLM APIs** (**OpenAI**, **Claude**, etc) for data parsing, contextual response generation, and workflow automation
- Implemented secure **JWT**-based authentication, email flows, and **Stripe** payment processing
- Built a real-time chat system with **Socket.io** and collaborated with frontend for seamless integration
- Authored clear documentation, promoted clean code practices, and contributed in agile ceremonies

Buzz Solutions

Nov. 2024 – Mar. 2025

Fullstack Engineer - Junior

- Developed a performant **PWA** with **Node.js**, **Express.js**, **MongoDB**, and frontend technologies
- Implemented **role-based access control**, **JWT** authentication, and offline support with service workers
- Optimized responsiveness, installability, and user experience across devices

Education

FAST NUCES

Sept. 2021 – Present

Bachelor of Science in Computer Science

Islamabad, Pakistan

Projects

CodeReview: AI-Powered Code Review Platform | React, TypeScript, Node.js, PostgreSQL, GitHub OAuth, OpenAI

- Built a full-stack platform for automated multi-language code review with AI-powered insights (bugs, security, performance, maintainability, style)
- Integrated **OpenAI GPT-4** with structured prompts, validation, and fallback to pattern-based analysis
- Implemented dual auth: **JWT with refresh tokens** and **GitHub OAuth** for secure user management
- Developed frontend with **React + TypeScript**, **Monaco Editor**, and **Tailwind CSS**, featuring real-time dashboards and editor customization
- Engineered backend with **Express.js**, **PostgreSQL**, and **Prisma**, with bcrypt hashing, Joi validation, rate limiting, Helmet, and CORS
- Optimized DB schema with foreign keys, indexes, and pagination for large-scale analysis history
- Delivered a scalable **monorepo** using npm workspaces, hot reload, automated scripts, and Prisma Studio

BankEasy: Banking Application | Java, Spring Boot, MySQL, React, CSS

- Built a full-stack banking system with **Spring Boot**, **MySQL**, and **React**, supporting Admin, Customer, and Employee modules
- Designed relational schema and implemented persistence with **JDBC** and **JPA Repository Pattern**
- Exposed **RESTful APIs** and applied a microservices architecture for scalability and modularity

Pulse: Hospital Management System | Java, JavaFX, MySQL, Scene Builder

- Developed a desktop-based hospital management system with **JavaFX UI** and **MySQL** backend
- Implemented robust backend logic with GRASP design principles and ensured efficient CRUD operations
- Added real-time synchronization of task updates between client and database for consistency

Technical Skills

Languages: Java, JavaScript/TypeScript, C#, Kotlin, C/C++, SQL

Frameworks/Libraries: Node.js, Express.js, Spring Boot, React, JavaFX, Jetpack Compose, Prisma ORM, Bootstrap, SASS

Databases: PostgreSQL, MySQL, MongoDB, SQL Server, IndexedDB

Cloud/DevOps: AWS (EC2, S3), Cloudflare R2, Nginx, Temporal, GitHub/Google OAuth, JWT, Stripe

Tools: Cursor, VS Code, IntelliJ IDEA, Android Studio, Visual Studio, Postman, Git/GitHub