

MUHAMMAD AHMAD RAZA

SENIOR SOFTWARE ENGINEER

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SUMMARY

Dedicated and detail-oriented Software Engineer with 5 + years of hands-on experience in building dynamic web applications and scalable software solutions using the MERN stack, TypeScript, and AWS. Skilled in Agile methodologies, collaborating effectively within cross-functional teams to deliver complex projects on time. A proactive problem solver with a passion for creating innovative solutions in the fintech and enterprise application domains.

SKILLS

Programming Languages: JavaScript, TypeScript, Python

Frontend & Backend Technologies: ReactJS, Next.js, Redux, Vue3, Angular, React Native, Tailwind CSS, NodeJS, Express.js, NestJS, Django, Flask, FastAPI, REST APIs, GraphQL, RTK Query, Redux Toolkit

AI & ML: LLMs, RLHF, Multimodality, Hugging Face, OpenAI API, Integration

Databases: MongoDB, PostgreSQL, Firebase

DevOps & Testing Frameworks: Docker, Git, CI/CD, AWS, Vercel, Heroku, Netlify & Jest, Cypress, Mocha

PROFESSIONAL EXPERIENCE

Senior Software Engineer | [Turing \(Google Code LLM\)](#)

Oct 2024 - Present | Remote, United States

Contributed extensively to the development and refinement of Gemini, focusing on RLHF to align the model's outputs with user expectations and improve usability. Developing datasets and defining protocols for model training and LLM Optimize Served as both a Trainer and Reviewer, overseeing the training pipeline and conducting evaluations to improve the performance, accuracy, and reliability of LLMs.

Lead JavaScript Engineer | [The Hexaa](#)

Jan 2023- Oct 2024 | Lahore, Pakistan

Actively contributed to the backend development of multiple web and mobile applications, taking ownership of key components such as system architecture, API design, and backend infrastructure. Played a crucial role in ensuring these projects met performance, scalability, and security standards.

- **Candorium ([Live Link](#)):** Developed a cross-platform mobile application for Candorium, delivering real-time business news, analysis, and multimedia content with an intuitive user interface. Implemented features such as article bookmarking and optimized text views to enhance user engagement and readability.
- **ClassTap ([Live Link](#)):** A Web and Mobile Application for scheduling and managing classes for fitness studios and educators. Designed and built the frontend architecture using React and a Node.js backend and use React Native for mobile application development.
- **OnBoardly:** Developed a company and staff management platform with role-based permissions, document uploads, email notifications, and staff archiving. Enabled dynamic admin controls for managing companies, venues, and staff with secure authentication.
- **GPT Glow ([Live Link](#)):** Developed a PDF-based AI assistant with vector storage (Pinecone), OpenAI integration, and Stripe-powered subscriptions. Enabled PDF uploads, chat history storage, and interactive AI-driven responses.
- **Verifinow ([Live Link](#)):** Real-time Identity Verification | Engineered a secure user verification platform leveraging facial recognition, ID validation technologies and Customer Intelligence & KYC and Preventing Fraud
- **Patient Verifi:** Integrated BlueJeans video conferencing for secure patient verification and virtual consultations. Developed a scalable backend in AdonisJS 5 with TypeScript, enabling real-time meetings, scheduling, and authentication via JWT & OAuth 2.0.

Associate Software Engineer | [One Machine Software](#)

April 2022- Dec 2022 | Lahore, Pakistan

Developed a HIPAA-compliant patient support mHealthCoach platform that automates pharmaceutical operations and enhances patient engagement through AI-driven interactions. Implemented mobile and web applications with features like messaging, appointment and scheduling, to improve patient outcomes.

- **mHealthCoach ([Live Link](#)):** A SaaS platform automating patient support and care coordination for healthcare organizations with customizable care apps and AI-powered contact centers.

ACHIEVEMENTS

Performance Optimization: Improved FunId platform performance by 30% through optimized database queries and operational enhancements. Reduced API response time by 40% using caching strategies like Redis and efficient query handling. Enhanced frontend load times by implementing lazy loading and code splitting in React applications.

Scalability & System Architecture: Designed and implemented a multi-tenant architecture with dynamic database switching based on frontend domains. Led the migration of ChatPDF to a microservices-based architecture, enhancing speed and maintainability. Developed Single Sign-On (SSO) authentication for a multi-site platform, enabling user access.

Multi-Tenant Architecture: Designed a system to switch databases dynamically based on the frontend domain in QuickGPT. **AWS Cognito Authentication:** DEnabled secure user authentication with AWS Cognito in Ocean Bridge

EDUCATION

Bachelor of Computer Science | University of Okara

Oct 2018 - May 2022 | Okara, Pakistan

FYP / MyNextJobWithAI - It is designed to expedite job search by reducing the time spent by 85%. It automates the process, helping to find high-paying jobs that match your skill set more efficiently.

Relevant Coursework: Software Engineering, Cloud Computing, Data Structures and Algorithms, OOP, Operating System, Machine Learning