

# IMAMUDDIN SHAIK | Full Stack Engineer

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## ABOUT ME

**Experienced Software Engineer:** Accomplished Software Engineer currently building Full Stack AI-driven web applications specializing in end-to-end product delivery from architecture through CI/CD to production, with deep expertise integrating large language models (OpenAI GPT-4, Anthropic Claude) via LangChain and Retrieval-Augmented Generation (RAG).

**Full Stack Expertise:** Strong proficiency in modern frontend technologies including Python, React 18, Next.js 14, TypeScript, with scalable backend development using FastAPI, Node.js, Express.js, and extensive experience with MongoDB, PostgreSQL, and Firebase database. Solid understanding of the Software Development Life Cycle (SDLC) and agile methodologies including CI/CD, application resiliency, and security best practices. Knowledgeable in modern technical disciplines such as cloud computing and machine learning integration.

**AI Integration Leadership:** Integrating AI to web application using multiple LLM providers including OpenAI GPT-4, Anthropic Claude, and Google Vertex AI through LangChain, RAG architectures, and vector databases to deliver cutting-edge AI experiences and intelligent web platforms.

## SKILLS

**Frontend Development:** React.js, Next.js, TypeScript, HTML5, CSS3, Tailwind CSS, Material-UI, Redux

**Backend Development:** FastAPI, Node.js, Express.js, RESTful APIs, GraphQL, Microservices Architecture

**AI/ML Technologies:** LangChain, RAG (Retrieval-Augmented Generation), OpenAI GPT-4, Anthropic Claude, Google Vertex AI, Vector Databases

**Databases:** MongoDB, PostgreSQL, Firebase (Firestore, Auth, Cloud Functions)

**Cloud & DevOps:** AWS, Firebase, Vercel, Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines

**Testing & Quality:** Playwright (E2E), Jest (Unit Testing), ESLint, Prettier, Code Quality Standard

**Tools & Practices:** Git, Agile/Scrum, ClickUp, Observability (Logging, Tracing, Monitoring), Sentry

## CERTIFICATIONS

**Career Essentials in Generative AI by Microsoft and LinkedIn**

**Docker Foundations Professional Certificate**

**Ethics in the Age of Generative AI**

**Microsoft Certified AZ-900 Microsoft Azure Fundamentals (2021)**

**The Complete 2024 Web Development Bootcamp**

**Full-Stack Engineer Career Path**

**Programming Foundations: Software Testing/QA**

## WORK EXPERIENCE

**SOFTWARE ENGINEER, ALANKRITA GROUP OF COMPANIES, London, UK, 07/2025 – CURRENT**

- **AI-Driven Platform Development:** Currently architecting and deploying intelligent web platforms using Next.js 14, React 18, and TypeScript, with scalable FastAPI/Node.js backends and enterprise-grade CI/CD automation that enables real-time feature delivery at scale.
- **Advanced AI Integration:** Actively designing and integrating next-generation AI-driven features by orchestrating multiple LLM providers including OpenAI GPT-4, Anthropic Claude, and Google Vertex AI through LangChain, RAG architectures, and vector databases to deliver cutting-edge AI experiences.
- **Microservices Architecture:** Building secure, data-centric microservices and RESTful APIs across MongoDB, PostgreSQL, and Firebase while implementing observability-first practices including structured logging, distributed tracing, and comprehensive performance monitoring.
- **Testing & Quality Assurance:** Leading automated testing strategies with Playwright for end-to-end coverage and Jest for unit tests, enforcing code quality standards and significantly reducing production incidents.
- **DevOps Excellence:** Orchestrating DevOps infrastructure through GitHub Actions, Docker, and cloud deployments on AWS, Firebase, and Vercel to cut deployment cycles from days down to minutes.
- **Cross-Functional Collaboration:** Collaborating with AI, UX, and product teams to define strategic roadmaps, rapidly prototype new features, and translate business requirements into scalable technical solutions that drive measurable impact.

- **Stakeholder Alignment:** Unified various stakeholder views to create a cohesive business need, balancing value, risk, and customer experience while adhering to regulatory standards.

## SOFTWARE ENGINEER, ZENITHWAVE CAPITAL, London, UK, 02/2025– 07/2025

- **Platform Architecture:** Led the design, development, and deployment of trading-focused platform delivering advanced financial education, trading tools, and fintech services. Designed and developed the entire zenithwavecapital.com architecture using Next.js, React, Tailwind CSS, and Firebase.
- **Dynamic Web Development:** Created dynamic pages including homepage, about, programs, legal, contact, and policies, with Firebase Functions for secure contact form handling and CORS setup. Ensured mobile-first, responsive designs with smooth animations and intersection observer effects.
- **LMS Platform Development:** Launched and customized the LMS platform (learn.zenithwavecapital.com) on LearnWorlds Pro Plan with courses, webinars, affiliate programs, coupons, blogs, Zoom, Stripe, and email marketing integration. Developing a custom LMS backend to replace LearnWorlds with scalable database design, user tracking, and admin tools.
- **Full Stack Backend:** Built backend logic with Firebase (Auth, Firestore, Cloud Functions) and visual management via Rowy. Working on dashboard.zenithwavecapital.com (trading management) and admin.zenithwavecapital.com (user, revenue, system controls).
- **CI/CD & Testing:** Established GitHub CI/CD pipelines for continuous integration, automated testing, and seamless deployment. Implemented end-to-end tests using Playwright and unit tests with Jest, ensuring robust code quality.
- **Code Quality & Agile Practices:** Maintained code quality using ESLint and Prettier, and followed agile practices with ClickUp task management and documentation. Integrated error tracking and performance monitoring for proactive issue resolution.

## SOFTWARE ENGINEER, REALITY AI LAB, London, UK, 04/2024 – 01/2025

- **Frontend Development:** Designed a modular onboarding interface with React.js and Material-UI, increasing user engagement by 25%. Enhanced application performance by 35% through custom React hooks, memoization, and state management optimizations.
- **API Development:** Developed robust RESTful APIs and integrated GraphQL services to streamline data exchange and support dynamic application features.
- **Authentication & Security:** Implemented secure authentication using Firebase and OAuth, ensuring data protection and seamless user access for 10k+ users.
- **Cloud Deployment:** Automated cloud deployments on AWS using CI/CD pipelines (Jenkins, Docker, Kubernetes), reducing downtime by 30% and ensuring rapid release cycles.
- **UI/UX Collaboration:** Collaborated closely with UI/UX designers to ensure accessibility, mobile-first design, and cross-browser compatibility boosting SEO performance by 40%

## ASSOCIATE SOFTWARE ENGINEER, DXC TECHNOLOGY, Bangalore, INDIA, 08/2021 – 12/2022

- **Web Application Development:** Developed responsive web applications using HTML5, CSS3, and JavaScript frameworks to ensure cross-browser compatibility and mobile-first design.
- **UI/UX Collaboration:** Collaborated with UI/UX teams to create intuitive interfaces, increasing user engagement and satisfaction.
- **API Integration:** Integrated back-end APIs with front-end components, streamlining data exchange and improving system efficiency by 15%.
- **Performance Optimization:** Implemented debugging and performance-optimization techniques, reducing page load times by 20%.
- **Agile Development:** Participated in Agile sprints and conducted thorough code reviews to maintain high coding standards.
- **System Migration:** Supported the migration of legacy systems to modern web technologies, laying the foundation for scalable e-commerce functionalities

## EDUCATION AND TRAINING

**BACHELOR OF ENGINEERING** JNTU University of Technology, 08/2017 – 08/2021

**MASTER OF SCIENCE** University of Huddersfield, 01/2023 – 01/2024

## WHY SELECT ME

My unique combination of skills, experience, and passion for excellence makes me the ideal candidate for this position, as I am committed to contributing to your company's success and growth.