MOHAMMED YASEEN V M

Software Engineer | Backend & AI Engineering

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PROFESSIONAL SUMMARY

Software Engineer with 2 years of experience building production-grade backend services, REST APIs, and mobile applications using Python, Flask, React Native, relational databases, Redis, and AWS. Experienced in scalable API development, database sharding with Vitess, performance optimization, third-party integrations, CI/CD, automated testing, and production deployments. Hands-on experience with AI-native development, including LLM applications, RAG, AI agents, MCP, AWS Bedrock, and AI-assisted software development using Claude Code, OpenAI Codex, and Gemini.

TECHNICAL SKILLS

- **Programming:** Python, TypeScript, JavaScript, Java, Dart
- **Backend and APIs:** Flask, FastAPI, Node.js, Express.js, SQLAlchemy, Pydantic, REST APIs
- **AI and Agent Engineering:** AI Agents, RAG, MCP, LLM APIs, Agentic Workflows, AWS Bedrock, Claude, Gemini
- **AI Development Tools:** Claude Code, OpenAI Codex, Gemini CLI
- **Frontend and Mobile:** React, React Native, Flutter, Redux Toolkit, RTK Query
- **Databases and Caching:** MySQL, PostgreSQL, MongoDB, Redis, SQLite, Vitess
- **Cloud and DevOps:** AWS (ECS, Lambda, SQS), Docker, Kubernetes, Terraform, GitHub Actions, Linux
- **Testing and Quality:** Pytest, Jest, Maestro, ESLint

PROFESSIONAL EXPERIENCE

ZEVON AI

Full Stack Engineer | August 2026 – Present

- Building a full-stack learning platform using Next.js 14, Express.js, and MongoDB, with course management, enrollment, progress tracking, mentor bookings, live sessions, discussion forums, and PDF certificate generation.
- Developed an AI tutoring system using AWS Bedrock with a RAG pipeline that extracts course PDF content and injects it into student-scoped prompts, routing requests across Nova Micro, Claude Sonnet, and Claude Haiku based on task type.
- Built a custom VS Code extension with backend code-completion endpoints, AI usage tracking, per-user usage quotas, and an admin dashboard for managing AI access controls.
- Provisioned AWS infrastructure using Terraform modules for compute, networking, and security, with Docker Compose, Nginx reverse proxy, and PM2 for deployment.

EDSTEM TECHNOLOGIES PVT LTD — Kochi, Kerala, India

Junior Software Engineer | June 2025 – July 2026

Software Associate | December 2024 – June 2025

- Contributed to the SetFit fitness platform, developing backend services, 60+ REST APIs, and React Native features across authentication, bookings, payments, rewards, and gym discovery.
- Designed MySQL sharding with Vitess across two shards and improved API performance using database indexing and Redis caching.
- Integrated Razorpay, SMS/WhatsApp notifications, and Zoho CRM, and deployed services across development, staging, and production using AWS ECS and GitHub Actions.
- Developed mobile features using TypeScript, React Native, Redux Toolkit, and RTK Query, while contributing to automated testing, CI/CD, linting, and security checks.

FREELANCE & PERSONAL PROJECTS

Zeke LA Holidays — Freelance Full-Stack Development

- Built a full-stack travel platform with a React 19/TypeScript frontend, Hono API, Cloudflare Workers, D1, R2, and KV, including an authenticated admin panel for destination, gallery, and blog management with draft/publish workflows.

Vivid VitaBlends — Freelance Full-Stack Development

- Built an e-commerce platform using React, TypeScript, Node.js, Express, PostgreSQL, and Prisma, with JWT authentication and Redis caching for improved application performance.

VitaBlends App — Freelance Mobile Development

- Built catalog, cart, checkout, and order-history features using Flutter, Dart, and Provider, integrated with the shared backend.

Hoor Al Bahr — Freelance Web Development

- Built and deployed a Flask/SQLite admin dashboard for independent menu and image management using Docker, GitHub Actions, and Nginx.

Cortex — Personal AI Engineering Project | In Progress

- Building an AI-assisted code review workflow using FastAPI, LangGraph, and CrewAI to analyze pull requests and generate fix PRs following automated testing, linting, and security validation.

EDUCATION

- **Bachelor of Computer Applications (BCA)** — Indira Gandhi College of Arts & Science, Ernakulam | 2024
- **Diploma in Cloud Computing & Cyber Security** — GITH Global India Techno Hub | 2024

CERTIFICATIONS

- Microsoft Azure AI Fundamentals (AI-900)
- Linux Foundation: Introduction to Kubernetes (LFS158)
- Linux Foundation x OpenSSF: Secure AI/ML-Driven Software Development (LFEL1012)
- AWS Cloud Practitioner Essentials