

# Azad Mohamed

## Backend Engineer (Python | Microservices | Scalable Systems)

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Backend-focused Software Engineer with 6+ years of experience building high-performance systems using Python, Django, and FastAPI. Specialized in distributed microservices, database optimization, and secure fintech architectures. Built an internal AI assistant using GPT-4 and Claude APIs. Currently learning RAG pipelines and vector databases with LangChain. Experienced with Claude Code and Cursor for AI-assisted development.

### SKILLS

**Backend & Languages:** — Python, Django, FastAPI, Django REST Framework, Go, Node.js, TypeScript, SQL

**Databases & Storage:** — PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, MinIO, Database Sharding, Connection Pooling, Read Replicas

**AI & LLM Technologies:** — LLM APIs (OpenAI GPT-4, Anthropic Claude), LangChain, Pinecone, Vector Databases, RAG Architecture, Prompt Engineering, Claude Code, Cursor AI

**Architecture & Communication:** — Microservices, Distributed Systems, gRPC, Protocol Buffers, REST APIs, GraphQL, Event-Driven Architecture, Message Queues (RabbitMQ, Celery), WebSocket, Load Balancing, Caching Strategies, CAP Theorem

**DevOps & Cloud:** — Docker, Docker Compose, Kubernetes, AWS EC2, AWS RDS, AWS S3, AWS Lambda, CloudWatch, CI/CD, Git, Nginx, GitHub Actions

**Security & Standards:** — OpenID Connect, OAuth2, JWT, RBAC, API Rate Limiting, Multi-Factor Authentication, Data Encryption

### WORK EXPERIENCE

**Senior Full Stack Developer, LMNTO PERFORMANCE** 2023 – Present | Dubai, UAE  
INFORMATION TECHNOLOGY LLC

- Lead development of multiple fintech platforms handling 2M+ users, designing backend services for transaction processing and financial operations
- Built secure blockchain wallet systems supporting on-chain and off-chain transactions with multi-signature authentication
- Designed distributed architecture for 3 interconnected platforms serving 5M+ users, using gRPC and event-driven patterns
- Built centralized authentication system using OpenID Connect, implementing SSO and RBAC across 15+ services, reducing security vulnerabilities by 40%
- Built an internal AI assistant using GPT-4 and Claude APIs integrated with platform data APIs, enabling operations teams to query user account status, transaction history, and generate operational reports via natural language
- Developed admin dashboard with real-time system metrics and automated reporting, improving operational efficiency by 35%
- Containerized services using Docker and Kubernetes, improving resource utilization by 30% and enabling zero-downtime deployments
- Wrote architectural decision records (ADRs), API documentation (OpenAPI/Swagger), and maintained automated testing at 90% coverage

## **Senior Software Engineer**, Stead Technologies LLP

2019 – 2023 | India

- Built the development team from scratch to 15+ engineers, handling hiring, onboarding, and establishing coding standards
- Planned and delivered every project from concept to production, owning architecture design, technical specs, implementation, and maintenance
- Developed multiple fintech platforms integrating with Zoho and QuickBooks via REST APIs and webhooks, syncing financial data into visual dashboards for different stakeholders
- Developed cross-platform mobile applications using React Native with offline synchronization, native integrations, and responsive UI components, achieving 4.8+ app store ratings
- Selected technology stacks, designed database schemas, defined API contracts, and established microservices boundaries for all projects
- Set up Docker containerization, GitHub Actions CI/CD pipelines, and AWS deployment automation, reducing release cycles from weekly to daily
- Built event-driven background processing with RabbitMQ and Celery, handling 100K+ daily jobs including third-party sync, report generation, and notifications
- Set up centralized logging and monitoring with CloudWatch and custom dashboards, reducing mean time to recovery by 50%
- Configured PostgreSQL with primary-replica setup, automated backups, and connection pooling
- Mentored junior developers and conducted 50+ technical interviews

## **EDUCATION**

**B.Tech Computer science and Engineering**,  
MES college of engineering

2015 – 2019  
Kuttipuram, Kerala, India

## **CERTIFICATES**

### **AI Engineer Core Track – Udemy (In Progress)**

LLM Engineering, RAG Architecture, QLoRA Fine-Tuning, Autonomous Agents

### **One Million Prompts – Dubai Future Foundation (Jun 2026)**

Advanced prompt engineering and LLM application development

### **DeepLearning.AI TensorFlow Developer – Coursera (Jul 2025)**

Deep learning, NLP, and time series analysis with TensorFlow