

Mohamed Abdulla

Full Stack Software Engineer

Nearly 4 Years Remote · Production-Grade Distributed Systems · App Store & Google Play Published

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VitaliT (iOS) · ContractorSync (iOS) · colakin.com

Profile

Full Stack Software Engineer with nearly 4 years of experience designing, building, and operating production-grade systems for thousands of active users. Owns architecture end to end: API design, event-driven services, authentication and identity infrastructure, observability, and database performance, across FastAPI, NestJS, Kafka, RabbitMQ, PostgreSQL, and Docker/Swarm. Also ships cross-platform mobile applications in Flutter, published to the App Store and Google Play, and builds SEO-optimized web platforms in Next.js. Drives technical decisions, leads code reviews, and mentors other engineers.

Selected Engineering Highlights

- Shipped two production mobile applications, VitaliT and ContractorSync, to the App Store and Google Play, each serving thousands of active users
- Owns identity and access management for an enterprise platform spanning Kong, Keycloak, OAuth2, OIDC, and HashiCorp Vault
- Built and operates centralized observability infrastructure (ELK Stack, Filebeat, Uptime Kuma) covering production logging, health checks, and incident response
- Designed the company's public-facing website (colakin.com) in Next.js, a 40+ page SEO-optimized platform with cookie consent and analytics integration
- Comfortable operating across the stack: mobile, backend, infrastructure, and web, on a single production system

Areas of Expertise

Backend & API Architecture · Event-Driven Systems (Kafka, RabbitMQ) · Authentication & Identity (OAuth2, OIDC, Keycloak, RBAC, Vault) · System Design · Python (FastAPI) · Node.js & NestJS · REST & GraphQL APIs · Observability (ELK Stack) · Database Optimization · Cloud & DevOps (Docker, Swarm) · SEO & Web Performance · Flutter Mobile (iOS & Android)

Professional Experience

Full Stack Developer

Remote

Colakin

11/2022 – Present

- Led backend and mobile architecture for VitaliT, a production Flutter fitness app with AI-powered meal recommendations, gamification, subscriptions, and payment processing, published on the App Store
- Designed ContractorSync, an enterprise workforce attendance platform: Flutter mobile client and a FastAPI/Oracle backend for real-time shift tracking and role-based access for contractors, supervisors, and administrators, deployed to Google Play
- Built and optimized colakin.com, the company's 40+ page corporate and IT-consulting website in Next.js, implementing on-page SEO, cookie consent, and Google Analytics tracking to support business growth
- Built a secure financial claims processing platform with automated workflows and Xero integration for invoice processing and compliance, leading backend delivery through to production demo
- Architected enterprise authentication and identity infrastructure using Kong API Gateway, Keycloak, OAuth2, OIDC, JWT, and RBAC, with HashiCorp Vault for secrets and credential management
- Built centralized observability with the ELK Stack (Elasticsearch, Logstash, Kibana), Filebeat, and Uptime Kuma for logging, health monitoring, and incident analysis, behind hardened Nginx and Docker deployments
- Designed event-driven workflows using Kafka, RabbitMQ, and ActiveMQ to improve asynchronous processing and reliability across services
- Optimized PostgreSQL, MySQL, and Oracle for high-throughput transactional workloads
- Led architecture decisions, conducted code reviews, mentored junior developers, and managed CI/CD pipelines across Docker and Swarm environments

- Developed backend APIs and Next.js frontend features for internal and client-facing systems
- Built a User Timesheet Management System with a Kanban-style workflow for tracking employee hours and project allocation
- Contributed to remodeling and enhancement of the official Kasadsara Tech website, improving structure and performance
- Delivered production-ready full-stack systems and deployments in a fast-paced environment

Independent Project

AidMesh · Event-Driven Emergency Aid Coordination Platform

- Designed a real-time emergency aid coordination system using event-driven microservices, built to handle thousands of concurrent requests
- Built microservices in Node.js/NestJS with async workflows via Kafka and RabbitMQ; API gateway and auth via Keycloak and Kong
- Architected the platform for scalability, fault tolerance, and production readiness

Skills

- **Architecture:** System Design, API Design, Event-Driven Architecture, Microservices
- **Languages:** JavaScript, TypeScript, Python, Java, Dart
- **Backend:** FastAPI, Node.js, NestJS, Express.js, Spring Boot, Prisma, Sequelize, GraphQL
- **Frontend:** Next.js, React, Tailwind CSS, SEO
- **Mobile:** Flutter (iOS & Android), App Store & Play Store
- **Databases:** PostgreSQL, MySQL, Oracle, MongoDB, Redis, Elasticsearch
- **Messaging:** Kafka, RabbitMQ, ActiveMQ
- **Cloud & DevOps:** Docker, Swarm, AWS, Nginx, CI/CD
- **Security & Identity:** Keycloak, Kong API Gateway, OAuth2, OIDC, JWT, RBAC, HashiCorp Vault
- **Monitoring:** ELK Stack, Elasticsearch, Logstash, Kibana, Filebeat, Uptime Kuma

Licenses & Certifications

- **Building Scalable Java Microservices with Spring Boot and Spring Cloud** · Google Cloud
- **Full Stack Web Development Internship Program** · Edureka
- **Front-End Web Development with React** · Coursera
- **Front-End Web UI Frameworks and Tools: Bootstrap 4** · Coursera

Awards & Achievements

- Awarded the **Buddy Professional Award** in 2nd year of B.Tech for consistent professionalism, collaboration, and peer leadership
- Selected for the **highest-paid internship** in the cohort based on technical skills, interview performance, and real-world project capability

Education

B.Tech in Information Technology (GPA: 8) Tirunelveli	Francis Xavier Engineering College 2022 – 2025
Diploma in Electrical and Electronics Engineering (94%) Tirunelveli	Sankar Polytechnic College 2017 – 2020

Interests & Languages

System Design & Architecture (Professional) Building Side Projects Mobile App Development Technical Writing | English Tamil (Native)