

Ifham Mohamed

Software Engineer

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PROFESSIONAL SUMMARY

Full-stack & DevOps engineer (React/Next.js, NestJS, PostgreSQL, Docker/CI-CD). Shipped production e-commerce, supply-chain, telehealth, and SaaS platforms, including systems serving 80,000+ users.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java

Frontend: Next.js, React, React Native, Redux Toolkit, React Query, Tailwind CSS, shadcn/ui

Backend & APIs: Node.js, Express.js, NextAuth.js, JWT, RESTful APIs, Microservices

Databases & ORMs: PostgreSQL, MongoDB, MySQL, Firebase, Prisma, Sequelize

Cloud & DevOps: GCS, AWS (S3, Lambda, RDS), Docker, GitHub Actions (CI/CD), Nginx

Architecture & Integrations: Feature-Based & Clean Architecture, RBAC, Real-time (CRDT/Yjs), Google OAuth, Stripe, Resend, WhatsApp API

EDUCATION

University of Moratuwa

B.Sc. (Hons) in Information Technology and Management

June 2022 – Present

Moratuwa, Sri Lanka

- CGPA: 3.5 / 4.0 | Coursework: Enterprise & Mobile Dev., AI & ML, Object Oriented Analysis, SE Methodologies

WORK EXPERIENCE

APP360 (Pvt) Limited

Software Engineer - Intern

February 2025 – August 2025

Colombo, Sri Lanka

- Built production features for a platform serving 80,000+ users, including inventory management, cashier operations, caregiver scheduling, and attendance tracking
- Migrated the application to the Next.js App Router (improved routing/SSR); developed a secure JWT + RBAC auth system with middleware guards and GCS signed-URL document uploads
- Delivered 55+ incremental builds with release notes and client-facing UAT demos; mentored a junior intern on version-control workflows and UI/UX quality

DOC-Q - Online Doctor Bookings

Software Developer - Web (Volunteer)

March 2024 – June 2024

Remote

- Implemented a location-based doctor search feature (improved discoverability) with Node.js, Express.js, and Firebase in a cross-functional team

PROJECTS

Total Supply - Multi-Role Supply-Chain Platform | Case study

January 2026 – Present

- Next.js 16, React 19, Prisma 7, Neon, NextAuth, GCS.* Multi-role supply-chain platform (6 roles, 14 models, 83 API routes) with three-layer RBAC, immutable audit logging, a GDPR data-retention cron, and direct-to-GCS V4 signed-URL uploads; cut landing Lighthouse TBT from 3.2s via code-splitting + tree-shaking. **Concepts:** RBAC (JWT claims), OAuth/OIDC, React Server Components, Neon serverless Postgres, V4 presigned URLs, GDPR data lifecycle, audit logging

PharmaConnect - Telehealth & Prescription Platform | Case study

2025

- NestJS, TypeORM, MySQL, Next.js 15, OpenAI Vision, Zoom.* Role-based telehealth platform: doctors run Zoom consultations and upload prescription photos that GPT-4o-mini Vision extracts and additively merges into a per-condition patient timeline, with cron-driven follow-up reminders. **Concepts:** GPT-4 Vision (image-to-structured-data), additive AI-merge prompts, Zoom S2S OAuth, RBAC (4 roles), RTK Query invalidation, cron jobs

DynaPOS - Multi-Tenant SaaS POS Platform | Case study

2025

- Next.js 15, React 19, Prisma, PostgreSQL, Auth.js v5, PayHere.* Production multi-tenant SaaS POS with accounting-correct FIFO/WAC inventory (per-sale cost snapshots), tiered pricing, multi-branch transfers, cash/bank reconciliation, and PayHere subscription billing; 210 Cucumber/Playwright E2E scenarios in CI. **Concepts:** multi-tenant isolation, FIFO/WAC accounting, RBAC, webhook idempotency (MD5), decimal precision, BDD E2E (Playwright/Cucumber), Prisma migrations

Unifixz - CI/CD & Zero-Downtime Deployment | Case study

2025 – 2026

- GitHub Actions, Docker, GHCR, Nginx, VPS, Prisma.* DevOps owner of Unifixz (Next.js studio commerce platform): a SHA-pinned GitHub Actions → GHCR → self-hosted-VPS pipeline with multi-stage Docker builds, zero-downtime blue-green container swaps with health-gated auto-rollback, a prod approval gate, and CI-run Prisma migrations. **Concepts:** CI/CD, Docker multi-stage builds, blue-green deployment, GHCR SHA-pinned images, zero-downtime deploys + rollback, prisma migrate deploy, build-time vs runtime env

Prompt Copilot - Cross-Surface AI Prompt Manager | Case study

December 2025 – January 2026

- *Next.js 15, React 19, Prisma, PostgreSQL, Chrome MV3, VS Code*. Cross-surface prompt manager: a Next.js dashboard, an offline-first Chrome MV3 extension, and a VS Code extension on one Zod-validated Prisma API; one-click insertion into ChatGPT/Claude/Gemini/Perplexity. **Concepts:** Next.js App Router, NextAuth.js v5 (OAuth) + API-key auth, MV3 service workers, content-script injection, VS Code Webview, offline-first sync, Zod

Samwoostore - E-Commerce Platform | [Case study](#)

October 2025 – January 2026

- *Next.js 15, Prisma, PostgreSQL, NextAuth, Docker, GitHub Actions, GCS*. Solo full-stack e-commerce for client Samwo (live at samwoohub.lk): 6 customer segments, GCS media with 1-year immutable caching, Winston audit logging, and a health-pollled GHCR → VPS deploy. **Concepts:** Next.js App Router, RBAC, GCS immutable caching, Docker multi-stage, GitHub Actions CI/CD, health-pollled deploy, Winston logging

Rag Release - Collaborative Publishing Platform | [Case study](#)

September 2024 – September 2025

- *Next.js 15, Express, PostgreSQL, Sequelize, Yjs/Tiptap, AWS S3, Stripe, Docker*. Final-year capstone: a 3-service microservices publishing platform with real-time co-editing (Yjs CRDT over WebRTC), JWT access+refresh rotation, and a 5-role RBAC workflow. **Concepts:** microservices, Clean Architecture, CRDT (Yjs), WebRTC + signaling, JWT refresh rotation, RBAC, S3 presigned URLs, Stripe webhooks

Additional Projects

- **X-POS** - cross-platform (iOS/Android/web) POS front-end with resilient JWT auth (single-flight refresh) + a swappable mock backend; *TypeScript, React Native, Expo, Redux Toolkit*. [Case study](#)
- **Attendify** - mobile-first classroom attendance (Expo RN + NestJS): multi-tenant isolation, idempotent writes, server-computed gender-split summaries; *NestJS, Expo, PostgreSQL, RTK Query*. [Case study](#)
- **Student Welfare Mgmt System** - full-stack dev (Level 2 group project, Loons Lab) on the ENIGMATRIX UVPA platform (live at ems.vpa.ac.lk); built Mahapola/disciplinary flows + Dockerised nginx deploy; *React, Material UI, Redux, Node, Express, PostgreSQL*. [Case study](#)
- **Internify - Intern Tracking System** - front-end dev (group project) on the ITS Batch 21 recruitment portal; built CV upload & management; *TypeScript, Material-Tailwind, Node, Express, PostgreSQL, AWS*. [Case study](#)
- **POV Globe** - IoT persistence-of-vision LED signboard: dual-ESP32 (FastLED, Hall-synced), 2-layer Altium PCB, live WiFi control; *C++, ESP32, WS2812B*. [Case study](#)
- **Master Blogmium** - MERN auth MVP for a blogging platform: JWT httpOnly-cookie sessions, Google OAuth, redux-persist; *React, Vite, Node, Express, MongoDB, Firebase*. [Case study](#)
- **Master Todo** - React + Firebase task app (state-management practice); *React, Vite, Firebase, Tailwind*. [Case study](#)

ACTIVITIES & LEADERSHIP

Open Source @ SEF Global (2022–Present) | Hacktoberfest (2022–2024) | MS Learn Student Ambassador (2023–24) | IEEE UoM Coordinator (2022–23)