



KUMUDITHA THARINDA LIYANAGE

Software Engineering Student — Mobile, Full-Stack & Systems Development

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SUMMARY

Final-semester HND Software Engineering student at NIBM Colombo with six projects across university coursework and independent work, spanning native macOS software, cross-platform mobile apps, IoT firmware, and backend reliability tooling. Comfortable moving between Swift, Kotlin, Flutter, and TypeScript, and between hardware, mobile, and cloud layers of a system. Looking for a first professional engineering role.

SKILLS

- **Languages:** TypeScript, JavaScript, Java, Kotlin, Swift, Dart, C++, Python, Rust
- **Mobile & Frontend:** Flutter, React, Next.js, Jetpack Compose, SwiftUI, HTML5/CSS3, Tailwind CSS
- **Backend & Cloud:** Node.js, .NET Core, REST APIs, Firebase, Supabase, Google Cloud Platform, Vercel, Cloudflare, Docker
- **Databases:** Cloud Firestore, Firebase Realtime Database, MySQL, SQLite
- **Tools:** Git/GitHub, Android Studio, VS Code, CircleCI, Figma

EDUCATION

HND in Software Engineering — National Institute of Business Management (NIBM), Colombo, Sri Lanka

Currently in final year (Batch HNDSE 25.2F)

PERSONAL PROJECTS

MacPulse — *Native macOS system optimizer, shipped & publicly released*

Swift 5.9, SwiftUI, MVVM, Swift Actors, StoreKit 2, CircleCI · github.com/mr-kumuditha/MacPulse

- Built and released a production macOS utility for junk cleanup, duplicate detection, performance monitoring, startup item management, and app uninstalling.
- Set up a CircleCI pipeline for continuous integration and shipped in-app purchases through StoreKit 2.

Rehearsal — *API reliability workbench for distributed-system failures*

TypeScript, Next.js, React, Node.js, SQLite, Playwright github.com/mr-kumuditha/rehearsal

- Built a fault-injection lab that runs real HTTP requests through inventory, payment, and delivery sandbox services to reproduce timeouts, duplicate events, and rate limits.
- Implemented idempotent recovery strategies with a baseline-vs-recovery comparison view and JSON evidence export; hosted the frontend on Vercel with a backend on a DigitalOcean VPS.

DevPilot Studio — *Terminal plugin for Claude Code, open source*

POSIX Bash, Shell scripting · github.com/mr-kumuditha/devpilot-studio

- Built and open-sourced a terminal plugin that shows real-time session metrics inside Claude Code.

CAMPUS PROJECTS

Navora — *AI travel planning app for Sri Lanka (group project)*

Flutter, Firebase, Supabase, Gemini via Firebase AI Logic, Google Maps, OSRM · github.com/mr-kumuditha/Navora

- Co-built a cross-platform (Android/iOS) travel planner for local Sri Lankan travelers, covering AI itinerary generation, offline map caching, and social trip sharing.
- Migrated the Gemini integration from a Cloud Functions gateway to Firebase AI Logic with App Check, verified working on a physical device.

Fixora — *Role-based repair-shop management app (assignment)*

Kotlin, Jetpack Compose, Firebase, Supabase, SQLite · github.com/mr-kumuditha/fixora-mobile-app

- Built a solo Android app connecting customers, technicians, branch managers, and admins, with GPS branch matching, live repair-status tracking, and photo upload for repair requests.
- Delivered a production-style workflow (design tokens, on-device testing, structured git history) within a two-day assignment timeline.

IoT Mining Safety Helmet — *ESP32 safety monitoring system (team of 3)*

ESP32, RFID (MFRC522), DHT11, MQ-135, MPU6050, Firebase Realtime Database ·

github.com/mr-kumuditha/IoT-Safety-Monitoring-System

- Built the firmware and cloud pipeline for a wearable safety helmet that tracks a miner's zone location, gas levels, and falls, sending Telegram alerts and streaming a live dashboard for supervisors.

REFERENCES
