

MUHAMMAD AMIN BIN MOHD ARIFF

Lead Frontend Engineer | Mobile & Web Architect

Kuala Lumpur / Selangor, Malaysia • +6012-4982969 • amin.mohdariff@gmail.com • [LinkedIn](#) • [Portfolio](#) • [GitHub](#)

PROFESSIONAL SUMMARY

Accomplished and product-focused Lead Frontend Engineer with over 5 years of production experience architecting high-performance cross-platform mobile apps, modern SSR web platforms, and design systems. Renowned for deep expertise in Flutter (iOS/Android/Web) and modern React / Next.js (Server-Side Rendering, SEO architecture, web performance). Proven track record leading client-side engineering for Singapore's SIMBA Telecom (TPG), government mobile solutions, and enterprise healthcare platforms. Backend-fluent engineer who collaborates seamlessly with backend and infrastructure teams, with hands-on proficiency in API design, Node.js, and Spring Boot service integration. Holds a newly completed Master of IT (2026) specializing in digital accessibility and UI/UX, alongside Certified Scrum Master (CSM) credentials and a demonstrated history of mentoring cross-border engineering teams.

CORE COMPETENCIES & TECHNICAL SKILLS

Mobile Architecture (Expert): Flutter & Dart (Cross-Platform iOS/Android/Web), Swift, Java/Kotlin (Android Native), App Hardening (FreeRASP, ProGuard), App Store & Play Store Deployment, CI/CD Flavors.

Modern Web Frontend (Expert): Next.js (SSR, SSG, Server Actions, Dynamic Routing), React.js, TypeScript, JavaScript (ES6+), SEO Architecture, Core Web Vitals, Responsive Layouts, Tailwind CSS, Bootstrap.

State Management & UI Architecture: Riverpod, Provider, BLoC, Redux Toolkit, Atomic Design Systems, Micro-Frontends, Accessibility Standards (WCAG 2.2, ISO 9241-11).

Backend-Fluent & API Integration: RESTful APIs, Server-Sent Events (SSE), WebSockets, Node.js / Express.js, Java Spring Boot service integration, MySQL, PostgreSQL, Firebase (Firestore, Auth, Cloud Messaging).

Device Hardware & Peripherals: Optical Character Recognition (OCR), Camera Capture, Barcode Scanners, Physical Smart Card / MyKad Readers, PDF Document Viewers.

Engineering Leadership: Agile / Scrum Master (CSM), Cross-Border Engineering Mentorship, Code Reviews, UI/UX Prototyping (Figma), Technical Specifications, Sprint Planning.

PROFESSIONAL EXPERIENCE

Tuas Solutions Sdn. Bhd. — Lead Frontend Engineer / Senior Software Engineer **May 2023 – Present**

Primary frontend engineering partner for SIMBA Telecom (TPG Telecom Singapore) • Kuala Lumpur, Malaysia / Singapore

- **Modern Web & SSR Architecture (Next.js):** Architected and delivered consumer-facing web applications using Next.js (SSR) and React (simba-website, simba-payment-frontend), optimizing search engine discovery (SEO), Core Web Vitals, and integrating frictionless Braintree and PayPal payment checkout funnels.
- **Enterprise Fibre Broadband Portals (Flutter Web):** Spearheaded frontend development for the SIMBA Fibre Broadband Registration (fbb-rego-frontend) and Gateway management portals, contributing 700+ commits, standardizing responsive data-table components, and enforcing strict client-side validation logic.
- **SIMBA Dealer & Selfcare Mobile Applications:** Engineered enterprise mobile apps (dealer-portal-mobile, simba-selfcare-app) in Flutter, delivering on-device camera OCR identity scanning, real-time subscriber usage carousel cards, and streamlined SIM replacement workflows.
- **Cross-Functional & API Contract Leadership:** Served as primary client-side architect supporting 4–5 backend developers in parallel across microservices; guided API contract design and data schemas, while actively aligning frontend deliveries with UI/UX design and sales/business stakeholders.

EzyProcure Sdn. Bhd. (SGEBIZ) — Senior Software Engineer / Frontend Lead

Aug 2022 – Jun 2023

B2B procurement and fintech payment platform • Singapore / Malaysia

- Managed and mentored a cross-border frontend engineering team spanning Singapore, India, and Malaysia, conducting regular code reviews and architectural alignments.
- Led the end-to-end development and App Store / Google Play launches of Flutter-based B2B procurement and payment applications (ezypayment-app, ezyprocure-v2).
- Established unified development standards by introducing automated multi-environment Flavors (Dev, Staging, Production) and CI/CD deployment pipelines.
- Implemented robust financial form validation, bank-grade data mapping, and CSV reporting exports for enterprise accounting reconciliation.

Rocketsview Management Sdn. Bhd. — Software Engineer (Mobile & Frontend)

Mar 2021 – Sep 2022

Software Development • Kuala Lumpur, Malaysia

- Applied Agile/Scrum frameworks across sprint teams, reducing client-reported UI defects and accelerating feature delivery.
- Championed modular Flutter widget architectures, state management patterns, and reusable component libraries across multiple commercial projects.
- Collaborated with external partners to integrate Flutter interfaces with third-party Android APKs and hardware peripherals.
- Built interactive client-facing dashboards and consumed RESTful APIs backed by relational databases.

SELECTED FRONTEND & FULL-STACK SYSTEMS

- **Klinik Aurora Healthcare Ecosystem:** Engineered complete clinical suite comprising patient mobile apps (Flutter), clinic admin web portals, and supporting Node.js/TypeScript backend services (membership-api — 500+ commits) with multi-tenant scheduling, loyalty engines, and zoomable PDF/medical record viewers.
- **ILKAP Judicial Training App (myICMAS):** Built official judicial training app for the Judicial and Legal Training Institute (Prime Minister's Department), deployed via the Malaysian Government Mobile Application (GAMMA) store; implemented enterprise FreeRASP 8.2+ app shielding.
- **CliniqOS Clinic Operating System:** Engineered smart clinic management web application in Flutter, integrating physical MyKad smart card readers, barcode medication scanners, and real-time live patient queue feeds using Server-Sent Events (SSE).

EDUCATION

Master of Information Technology (Multimedia System)

Graduated 2026

Universiti Kebangsaan Malaysia (UKM) • Mixed Mode (Research & Coursework)

Thesis: Inclusive Mobile Learning Interface Design and Accessibility Guidelines for Visually Impaired Learners (Evaluated via SUS, conforming to WCAG 2.2 and ISO 9241-11 standards). Publication submitted to *Asia-Pacific Journal of Information Technology and Multimedia (APJITM)*.

Bachelor of Software Engineering (Development in Multimedia) with Honours

Graduated Dec 2021

Universiti Kebangsaan Malaysia (UKM) • CGPA: 3.76 / 4.00 (First Class Honours equivalent)

Dean's List Award (4 Semesters) • Senior University Scholarship (5 Semesters) • Tun Razak Hamdan Award.

CERTIFICATIONS & LEADERSHIP HONORS

- **Certified Scrum Master (CSM)** — Global Association for Quality Management (GAQM)
- **President** — Faculty of Information Science and Technology (FIST), UKM (2019)
- **Regional Finalist** — ACM-ICPC Malaysia Al-Khawarizmi National Programming Competition (2019)
- **Champion** — Taekwondo UKM (Welter Category) & Liga IPT Division 2 Football Champion