

MARIYAM NAZA ZUHAIR

Senior Software Developer

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Summary

I'm a Senior Software Developer with over six years of experience building production software, ranging from fintech applications serving 500k+ active users to full-stack systems and developer tools. I enjoy working on complex performance, architecture, and security challenges and finding right solution for each project. Ultimately, whether I'm optimizing mobile applications or scaling backend services, my goal is the same: to build software that is powerful, yet feels effortless to use.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), Kotlin, Swift, SQL, PHP

Mobile Engineering: React Native, Expo, TurboModules, JSI, VisionCamera, Native Modules, Android, iOS

Frontend & UI: State Management, System Architecture, Performance Optimization, Animation Systems, Responsive Design

Backend & APIs: Node.js, Fastify, REST APIs, Laravel, Prisma, PostgreSQL, MongoDB

Systems & Infrastructure: Docker, Linux, CI/CD, Offline-First Architecture, Background Synchronization, Observability Systems

Security, Data & ML: OAuth2, Biometrics, Passkeys (WebAuthn), Encrypted Storage, OCR Pipelines, ML Kit, K-Means Clustering

Experience

Product & Client Projects

Remote

Full-Stack Developer

Feb-2026-Present

- Designed and delivered **mobile, full-stack, AI, and developer tooling** projects for clients and independent products, specializing in **React Native, Fastify, PostgreSQL**, performance optimization, security, and offline-first architecture.
- **RideShare Driver** : Developed a **Native Kotlin** module for **live activities tracking**.
- Predictive User Segmentation Platform : ML clustering using **K-means and hierarchical** achieving **86.8% prediction accuracy**.
- **PerfKit** : RN + Expo **Performance Monitoring SDK** for capturing startup, UI thread, JS runtime, navigation, and network metrics.

Smart Home Management Platform

Remote

Senior Software Engineer

June 2025-Jan 2026

- Unified **1,000+ smart devices across 50+ brands** into a single mobile platform using **React Native, Fastify, and PostgreSQL**.
- Built a **full-stack IoT platform** supporting **real-time monitoring, automation, scheduling, AI-powered workflows**, and **secure remote device control**.
- Engineered scalable REST APIs, **role-based access, push notifications, and device synchronization** for reliable smart home management.
- Delivered **LLM-powered smart home automations** enabling natural language control, intelligent routines, and context-aware device orchestration.

Bank Of Maldives Plc — Mobile Banking App

Maldives, Hybrid

Senior Software Developer

Jan 2023 - Jun 2025

- **Owned and delivered** core mobile banking systems for a **fintech** app serving **100k+ daily users**, improving reliability, security, and performance across critical financial workflows.
- **Reduced JS thread stalls by ~52%** (576ms → 274ms), **cold-start time by ~45%** (~2200ms → ~1200ms), and **API latency by ~40%** (~480ms → ~290ms) through React Native **runtime and network optimization**.
- Redesigned **runtime and navigation architecture** during React Native 0.66 → 0.76 upgrade, improving stability and native module compatibility.
- Strengthened fintech security by implementing **OAuth2, biometrics, Passkeys (WebAuthn), encrypted storage**, and secure token lifecycle management meeting **fintech-grade security and compliance** standards.
- Engineered low-latency account recognition by building **real-time on-device OCR** pipelines using **VisionCamera + JSI**.

Heylhi Environmental Monitoring App — SIGS

Maldives, On-site

Full-Stack Developer

Jan 2022 - Dev 2022

- Developed a **nationwide** coastal and flooding monitoring platform (v1.0) for structured citizen science **environmental data collection**.
- Implemented **geotagged survey and media workflows** supporting **6 fixed coastal monitoring sites** for coral bleaching, erosion, and pollution tracking.
- Improved reliability of field-data workflows in low-connectivity environments by engineering **offline-first sync architecture**.
- Built scalable **Laravel+ MongoDB** APIs and processing pipelines for environmental data ingestion, **analysis, and visualization**.

Dive Logging & Environmental Monitoring App — SIGS

Maldives, Remote

Full-Stack Developer

Apr 2021 - Dec 2021

- Built and launched a social + scientific dive platform supporting **200+ dive sites** and **1000+ logged** dives across the Maldives.
- Built a **full-stack React Native, Laravel, and MongoDB** platform with media uploads, analytics, dive-sites, and social features.
- Engineered **offline-first synchronization and analytics systems** for low-connectivity marine environments, transforming raw dive logs into actionable environmental and monitoring insights.

Education

Staffordshire University, UK & Asia Pacific University (APU), Malaysia

Malaysia

BSc (Hons) Computer Science - Data Analytics

April 2021