Zahiruddin Zainal

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Summary

Mobile Developer with over four years of experience in software development specializing in Flutter, Dart, Swift, Kotlin, and Laravel. Skilled in working with teams from diverse backgrounds to deliver end products.

Experience

Mobile Developer, Aerodyne Group   Jan 2023 – Present

- Developed real-time drone tracking using MQTT and Mapbox for telemetry and movement visualization.
- Integrated RTMP video live streaming using DJI Mobile SDKs.
- Established WebSocket communication for low-latency, real-time data exchange.
- Applied MVVM architecture with an offline-first strategy.
- Managed data using RealmDB, SQLite, and performed API integration via Alamofire with JWT authentication.
- Implemented Crashlytics for crash monitoring, feature flagging, remote configuration, and forced updates.
- Bridged Swift and Objective-C for seamless interoperability.
- Set up development, staging, and production environments.
- Managed daily tasks using Shortcut (ticketing), GitHub (version control), and Codemagic (CI/CD & distribution).

Mobile Developer, Synapse Innovation Sdn Bhd (Acquired by Aerodyne Group)   Sept 2022 – Jan 2023

- Maintained and optimized an image processing mobile app built with Flutter.
- Migrated CocoaPods dependencies to Swift Package Manager to improve build efficiency.
- Implemented localization to support multi-language accessibility.
- Designed and integrated backend services using RESTful APIs.
- Developed and maintained a Laravel backend with caching and authentication.
- Integrated Mapbox for real-time geospatial visualization.
- Implemented automated email notifications using SendGrid.

System Developer, Wasiyyah Shoppe Berhad   Sept 2021 – Sept 2022

- Built a Document Management System (DMS) for legal document handling using Laravel.
- Generated PDFs using FPDF and optimized task handling with Laravel Horizon and queues.
- Developed *MyWasiyyah*, a customer-facing app using Flutter, and deployed it to Google Play Store and App Store.
- Implemented Firebase Cloud Messaging for push notifications.
- Integrated Twilio for SMS verification and developed a password recovery module.
- Developed *UsraHDD*, a document management app using React Native.
- Implemented authentication flows and eKYC verification.
- Deployed face detection scripts using AWS Lambda.
- Integrated a QR scanner for user registration.

Software Developer (Internship), HeiTech Padu Berhad   Jul 2020 – Dec 2020

- Designed and implemented a secure digital document signing process.
- Integrated authentication via the company's Active Directory (AD).
- Enhanced frontend table features using DataTables.
- Implemented page-read flags to monitor customer support activity.

Education

Universiti Tun Hussein Onn Malaysia, Bachelor's Degree in Computer Science (Software Engineering) with Honours   Jul 2017 – Jan 2021

- **Coursework:** Software Development Lifecycle (SDLC), Software Design and Architecture, Database Design and Management, Algorithms and Data Structures, Object-Oriented Programming (OOP)

Tech Stack

Languages & Frameworks: Dart, Swift, Objective-C, Kotlin, Laravel

Tools & Platforms: Git, Firebase, RealmDB, SQLite, MySQL

Architecture & Design Patterns: MVVM, Repository Pattern, Clean Architecture, Offline-First Architecture

Certificates

Apollo Leadership Programme (Aerodyne Group)

Personal development (goal-setting, decision-making, communication, teamwork), project management fundamentals, speaking with confidence (communication styles, storytelling), ethical leadership (ethics, responsibility, integrity), and effective meeting management (planning, stakeholder input).

Problem Solving (Intermediate), Hacker Rank

Certified in solving intermediate-level challenges involving algorithms and data structures such as sorting, searching, dynamic programming, and graphs.

Design Patterns in Swift, Udemy

Completed a comprehensive course on Design Patterns in Swift, covering SOLID principles, modern programming approaches, and practical applications.

References

Muhammad Arif Jusoh

Lead Mobile Engineer, Aerodyne Group
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Ahmad Muhaimi Mohamad

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