Lee Do Hyeon (Robert)
Email: Dohyeonee95@hotmail.com
Github: https://github.com/eqfwcev123
Web: https://eqfwcev123.github.io
Contact: (+852) 9296-8473

Education

The Hong Kong Polytechnic University	**Hong Kong**
BBA (Honors) in Global Supply Chain Management	**2013 – 2019**

Shanghai High School International Division	**2002-2013**

Work Experience

LSCM Research & Development Centre	**Hong Kong**
Software Engineer	**2020 October – Present**

- Implemented advanced Bluetooth Low Energy connectivity within the Flutter app, featuring UUID-based beacon scanning, background processing, and real-time data transmission protocols that deliver immediate voice notifications when vehicles are detected nearby.
- Developed a comprehensive data monitoring platform featuring both Flutter mobile and web applications that collect and visualize real-time data from sensors.
- Designed modular, reusable UI components that can be easily maintained and extended.
- Applied clear separation of models, views, and services for better code organization and testability.
- Implemented GetX Controller pattern for reactive state management with efficient dependency injection.
- Applied Model-View-Controller pattern with clear separation of device status models, UI components, and state controllers.
- Created layouts that adapt seamlessly to multiple screen sizes and device orientations.
- Implemented Provider state management pattern in Flutter to ensure efficient data synchronization across the application, enabling seamless real-time updates of sensor readings and system status across multiple screens and components.
- Integrated Firebase Cloud Messaging (FCM) to create a robust push notification system that automatically alerts users when sensors exceed critical thresholds, significantly improving response times for environmental monitoring and preventive maintenance operations.

Side Projects

Reward-based Q&A Platform: "Solva"	**Hong Kong**

- Developed a Flutter mobile application featuring a competitive Q&A system where users post questions with monetary rewards and verified experts compete to provide the best answers, implementing BLoC (Business Logic Component) pattern for robust state management across complex user flows.
- Architected scalable dependency injection using GetIt service locator for clean architecture, integrated Firebase FCM for real-time notifications when experts respond to questions, and implemented Firebase Crashlytics for production monitoring and crash reporting.
- Built the app using a 3-layer architecture that separates business logic, data handling, and user interface - making the code maintainable and scalable.
- Implemented a secure escrow payment system with time-limited response periods using BLoC's event-driven architecture, featuring automated timer countdowns and dynamic UI state updates based on payment status and expert response timing.
- Implemented efficient message pagination that loads 20 messages at a time with smooth infinite scrolling experience.
- Implemented intelligent data storage including question cache with automatic cleanup (5-minute refresh), offline chat storage, bookmarked content cache, and user profile caching with smart updates.
- Integrated Firebase services for user analytics, crash reporting, and push messaging with detailed user behavior tracking.

Cryptocurrency Backtesting Platform: "BtoF.fi"	**Hong Kong**

- Developed a full-stack cryptocurrency trading platform using Nest.js and React that enables strategy backtesting with customizable technical indicators (MACD, SMA, SO).
- Implemented a real-time trading signal system integrated with multiple cryptocurrency exchanges via REST APIs, processing market data to generate actionable buy/sell/hold recommendations.

Techincal Skills

- Backend Development: Python (Flask), JavaScript/Typescript (Node.JS/Express.js), React.
- Mobile Development: Flutter/Dart, Bloc, Firebase.

Languages

- Native in Korean, Proficient in speaking and writing both English and Chinese.