

# DARREN LE

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## ANDROID ENGINEER

Experienced Mobile Developer with 5 years of experience in Android, cross-platform, and web app development across logistics, food delivery, and telecom. Skilled in the full software development lifecycle, ensuring scalable and efficient solutions. Proficient in Kotlin, Java, Clean Architecture, MVVM, Jenkins CI/CD, and databases like MySQL, PostgreSQL, and MongoDB. Adept at Agile development, delivering high-quality products through iterative collaboration.

- SOLID Principles • Problem Solving • Performance Optimization • CI/CD Pipelines
- Mobile Development (Android, Cross-Platform) • Database Management • Unit & UI Testing

**Android Development:** Kotlin, Java, Jetpack Compose, Coroutines, MVVM, Clean Architecture LiveData, RxJava, ViewModel, WorkManager, Room Database, Hilt/Dagger, Kodein

**Web Services:** RESTful, GraphQL

**Frameworks:** Android, Flutter, MAUI, React Native

**Databases:** MS SQL, SQLite, MySQL, MongoDB, Firebase Firestore, Redis

**Design Patterns:** Singleton, Factory, Builder, Observer

**SDLC:** Agile, Scrum

**Tools:** Android Studio, IntelliJ, XCode, VSCode, Git, GitLab CI

**Application/Software:** Stripe Payment Gateway, Okta SSO, ArcGIS Map, Google Map, Firebase SDKs

## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

### **OCEANSMART (via RESTAFF), Ho Chi Minh City, Vietnam • 09/2023 – 07/2024**

A provider of real-time tracking solutions for maritime logistics, enhancing supply chain visibility and reducing risks, costs.

#### **Senior Mobile Engineer**

Developing mobile app with .net MAUI framework.

- Refactored and migrated an existing project from Xamarin to .NET MAUI, enhancing maintainability and unlocking cross-platform development capabilities.
- Researched and introduced tools such as Ninject and other .NET utilities to the team, increasing productivity and streamlining development workflows.
- Implemented key project features, including SSO login with OKTA and multi-variant build scripts in .NET MAUI integrated into CI/CD pipelines, enhancing security and scalability.
- Released Android and iOS applications to the Play Store and App Store, automating the process with CI/CD pipelines using App Center, reducing deployment time by 40%.
- Developed and maintained robust unit and integration tests using JUnit and Mockito, achieving 85% test coverage and ensuring high code reliability.

**Technologies Used:** .NET MAUI, Xamarin, MVVM, Firebase Cloud Messaging (FCM), nInject, Git, GitLab CI, Firebase Crashlytics, Kotlin DSL, Junit, Mockito, GraphQL, Proguard, Google Playstore Console, Apple Store Console.

### **TRUSTONIC (via AGEST), Ho Chi Minh City, Vietnam • 02/2022 – 08/2023**

A security-focused solution for mobile devices and automotive systems.

#### **Senior Android Engineer**

Developed android app with Java and Kotlin. Develop AOSP setup process during the initial phase of a device hard reset.

- Implemented key features like offline OTP generation, memory optimization, SIM lock control, call whitelisting, and Room ORM for enhanced performance.
- Optimized thread concurrency to prevent UI freezes, improved REST API integration with Retrofit, reducing crashes by ~25% and enhancing user experience.
- Researched and recommended productivity-enhancing tools such as Google License Scanner and Paging 3, streamlining team workflows and increasing development efficiency.
- Mentored and coached a team of multi-national developers, providing, supporting onboarding, and reviewing code to uphold quality standards.

**Technologies Used:** Android, Kotlin, Java, Kotlin DSL, Jetpack Compose, SQLite, Firebase Cloud Messaging, Dagger, Hilt, DPC, Junit, Mockito, Espresso, Coroutine, Retrofit, Proguard, CI/CD, Google Playstore Console, AOSP.

## **DSOFT, Ho Chi Minh City, Vietnam • 05/2021 – 02/2022**

Tech Startup Software Development Services.

### **Senior Mobile Engineer**

Developed mobile app (android and iOS) with flutter framework and backend services.

- Developed cross-platform mobile applications using Flutter, delivering scalable and high-performance solutions from scratch for a warehouse management project.
- Integrated RESTful APIs, ensuring seamless communication between mobile apps, web dashboards, and backend services for a consistent user experience.
- Enhanced application security and authentication by implementing OAuth 2.0, JWT, ensuring compliance with industry security standards.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions, automating app builds, testing, and deployment to reduce manual effort and accelerate release cycles by 30%.

**Technologies Used:** *Flutter, Android, iOS, React.js, Spring Boot, PostgreSQL, Git, GitLab CI, Retrofit, Mockito, Junit, Jetpack Compose, MVVM, Coroutine, Bloc Provider, Firebase Crashlytics, Google Playstore Console, Apple Store Console.*

## **LOSHIP, Ho Chi Minh City, Vietnam • 10/2019 – 05/2021**

The fastest-growing Tech startup operates a one-hour-delivery E-commerce platform called Loship.

### **Android Developer**

- Led the migration from Flutter version 0.0.1 beta to Flutter 1.9.1, ensuring smooth transitions and minimal disruption to existing features.
- Developed a radio streaming feature for the Flutter application, enriching functionality and delivering a seamless user experience.
- Designed and implemented the Lucky Wheel Game within the Loship app, boosting user engagement and retention by integrating an interactive rewards system.
- Refactored the entire application from Flutter to Native Android, enhancing app stability, reducing crashes by 30%, and significantly improving performance.

**Technologies Used:** *Android, Kotlin, Java, Flutter, MVP, MVVM, Junit, Mockito, Jenkin, Firebase App Distribution, Git, Firebase Cloud Messaging (FCM).*

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## **ACADEMIC PROJECTS**

### **Maharishi International University (2024)**

- **HealthBuddy:** Developed an AI-powered virtual doctor for symptom assessment, first aid advice, and clinic recommendations. Built the front-end with Angular, DaisyUI, and MaterialUI, integrating Express.js, MongoDB, and FastAPI with Qdrant for AI-driven healthcare support. Utilized Angular, DaisyUI, Express.js, MongoDB, and FastAPI.
- **Online Dictionary:** Developed a dictionary app with React and Node.js, enabling term searches and real-time tracking of popular words. Implemented a responsive UI, auto-refreshing search trends every 25 seconds, and deployed the backend on Render. Utilized React, Express, and Node.js.

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## **PERSONAL PROJECTS**

**Matching Words – Vietnamese Word Puzzle Game 2023:** Developed and optimized **Matching Words**, a Vietnamese word puzzle game for Android, iOS, and macOS. Ensured smooth performance, scalable game logic, and responsive UI across platforms. Improved memory usage and rendering speed. Utilized Flutter, Dart, Bloc, Provider, Hive, Firebase, and Game Services.

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## **EDUCATION**

### **Master of Science in Computer Science**

*(In progress via distance education; expected completion 04/2027)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** *Web Application Programming, Web Application Architecture, Modern Web Application, Algorithm*

### **Bachelor Degree in Software Engineering**

Gia Dinh University, Ho Chi Minh City, Ho Chi Minh City (09/2019)