

Muhammad Hilmi Satrio

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ABOUT ME

I am a fresh graduate of Informatics Engineering from YARSI University with some work experience. I am passionate about Android application development, and my proficiency in programming languages such as Kotlin and Java supports this interest. With these capabilities, I am experienced in building and developing Android applications, especially in the healthcare sector and other innovative fields. I am eager to contribute through my skills and capabilities while committed to continuing to learn and expand my knowledge in Android application development. Furthermore, I am highly motivated to take on new challenges and work collaboratively within teams.

EDUCATION

YARSI UNIVERSITY

Bachelor of Informatics Engineering, 3.93/4.00

Jakarta, Indonesia

Sep 2020 – Jul 2024

SMK Negeri 1 Adiwerna

Vocational Degree, 84/100

Tegal, Indonesia

Jul 2017 - Aug 2020

EXPERIENCE

Mobile Development - Participant

Aug 2023 – Dec 2023

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

Full Time, Jakarta

- Attend all Bangkit Team Meeting and Instructor Led-Training sessions, which have 3 types (soft skills, english, and tech/hard skills).
- Understand some soft skills useful for entering the workforce, such as Growth Mindset, Adaptation Skills, Problem Solving, Communication Skill, Personal Branding, Time Management, and Teamwork.
- Finished learning English by completing the English exam organized by TBI (The British Institute).
- Finished every assignment for each week within the deadline.
- Completed all mandatory courses in the Android Learning Path on the Dicoding platform by submitting an Android project implementation each learning. These courses include Learn Basic UX Design, Getting Started with Basic Programming to Become a Software Developer, Introduction to Programming Logic (Programming Logic 101), Learn Basic Git with GitHub, Learn Basic Programming with Kotlin, Learn Android App Basics, Learn Fundamental Android, Learn Intermediate Android App Development, Learn SOLID Programming Principles, Learn to Become an Expert Android Developer, Learn to Build Android Apps with Jetpack Compose and Android Developer Associate Exam Simulation.
- Collaborated with Cloud Computing and Machine Learning teams to create the C-Vision App (Cataract Eye Detection Application).

- Understand the SDLC (Software Development Life Cycle) concept in application development.
- Understand the basic programming and logic in Kotlin programming language and be able to implement data structure, control flow, class, object, and function.
- Implementation of the OOP (Object Oriented Programming) paradigm and SOLID principles to develop applications that are structured and easy to maintain.
- Able to design UI (User Interface) using Activity and fragments to create responsive and interactive applications.
- Build Android Application using some Android Jetpack components (ViewModel, ViewBinding, DataBinding, LiveData, Navigation Component, etc.).
- Integrating the Android app with the server to retrieve and display data using Retrofit and Okhttp for http requests while managing local data storage with ROOM.
- Running background processes using coroutines for running tasks asynchronously.
- Implement clean code architecture, MVVM design pattern, and dependency injection using the Hilt Digger component to reduce application dependency.
- Able to perform application testing with unit testing using Mockito and UI testing using Espresso.
- Collaborated with Full Stack Developer teams to create the FlyId App (Booking Flight App).

PROJECTS

ViuMe *MVVM, Dependency Injection (Dagger-Hilt), Android Jetpack, Room, Android SDK, Kotlin, Retrofit, Material, Navigation Component, Kotlin Coroutine, DataStore, Clean Architecture, OpenCV.* **2024**

ViuMe mobile is an Android application-based digital pathology platform developed by Yarsi University in partnership with PT. PathGen Diagnostik Teknologi and YARSI Hospital. This application facilitates pathology in diagnosing cervical cancer by annotating cells manually or automatically using AI (Artificial Intelligence) technology. In addition, this application provides a collaborator feature to help pathology perform better in handling a case. This application can help improve the efficiency and effectiveness of pathology in screening cervical cancer.

C-Vision *Kotlin, MVVM, Dependency Injection (Dagger-Hilt), Android Jetpack, Room, Android SDK, Retrofit, Material, Kotlin Coroutine, DataStore, Navigation Component, Clean Architecture, TensorFlow Lite, Glide.* **2024**

C-Vision is a mobile application used to help diagnose cataract eyes with the help of AI (Artificial Intelligence). This application utilizes user eye image input using a camera and through screening using AI models on the device so that the diagnosis process is faster.

[Flyld](#)

Android SDK, Kotlin, Android Jetpack Libraries, Dependency Injection, Glide, Clean Architecture, MVVM, Retrofit

2023

Flyld is a mobile application that allows users to book domestic flight tickets online, with one-trip and round-trip options. In addition to an interactive display, the application has several features, such as a payment menu, notifications, and booking history.

[Obrol](#)

MVVM, Dependency Injection (Dagger-Hilt), Android Jetpack, Room, Android SDK, Kotlin, Retrofit, Firebase, Material, Single Activity, Navigation Component, Kotlin Coroutine, DataStore, Clean Architecture

2023

An application that facilitates users' interaction within a community through an interactive and intuitive platform. Users can log in and create a community room to share stories and discuss topics. This application facilitates sharing images and adding comments to increase interaction between users.

TECHNICAL SKILLS

- | | | | | |
|----------|------------------------|----------------------|-------------------|---------------|
| • Kotlin | • Dependency Injection | • Clean Architecture | • Firebase | • CI/CD |
| • Java | • Reactive Programming | • ROOM | • Material | • Obfuscation |
| • MVVM | • Modularization | • Retrofit | • Android Jetpack | • Git |
| • SCRUM | • CMake | • OpenCV | • Espresso | |

CERTIFICATES

[Become an Expert Android Developer](#)

2024 – 2027

Dicoding Academy Certificate

[Learn to Build Android Apps with Jetpack Compose](#)

2024 – 2027

Dicoding Academy Certificate

[Getting Started Programming with Kotlin](#)

2024 – 2027

Dicoding Academy Certificate