

Muhammad Ikhlaash

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Final-year Computer Science student passionate about mobile application development, especially Android. Experienced in mobile application using Kotlin, Flutter, and Jetpack Compose. Eager to contribute to high-impact teams and continuously improve engineering skills.

EDUCATION

Computer Science IPB University Relevant Coursework: Algorithms; Data Structures; Software Engineering; Programming; Database;	Jul 2021 - Present GPA: GPA: 3.63
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WORK EXPERIENCE

Internship Mobile developer Kementerian Pertanian - Pusat Perpustakaan dan Literasi Pertanian. <ul style="list-style-type: none">Developed a mobile application and agricultural portal website to support library activities at the Ministry of AgricultureImplemented core features including user authentication, blog module, agricultural repository, and map integration.Collaborated with internal teams to design features aligned with user needs.	Oct 2024 – Nov 2024 Bogor, Indonesia
Mobile Developer Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka <ul style="list-style-type: none">Selected for a competitive 5-month program focused on Android mobile development.Collaborated with peers in Cloud and Machine Learning tracks on a capstone project integrating authentication, ML models, and API featuresCompleted over 480 hours of hands-on training in Android technologies and development best practices.Recognized as a top graduate in the mobile development cohort based on performance and project outcomes.	Feb 2024 - Jun 2024 Indonesia

ORGANIZATIONAL & VOLUNTEER EXPERIENCE

Badan Pengawas Division Secretary Himpunan Mahasiswa Ilmu Komputer <ul style="list-style-type: none">Recorded meetings, decisions, and key correspondences.Prepared and distributed meeting minutes summarizing key points.Oversaw activities in the organization's division and conducted financial report audits.	Feb 2024 - Jun 2024 Bogor, Indonesia
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PROJECTS

GetHealth+  Developed an e-commerce application for purchasing health products. <ul style="list-style-type: none">Implemented user authentication for secure access.Developed product listing and browsing features for enhanced UX.Connected frontend with backend database using REST API.Technologies used: Flutter, Dart, PHP, MySQL.
TestMata Built a diagnostic app to assist users in identifying early signs of keratitis. <ul style="list-style-type: none">Implemented face detection using ML Kit.Integrated a machine learning model to analyze visual inputs for signs of keratitis.Collaborated with the ML team to train and deploy the detection model.Technologies used: Android, Kotlin, ML Kit.
SAPA  Developed an interactive learning app for sign language as a Bangkit capstone project <ul style="list-style-type: none">Built interactive learning modules using Jetpack Compose.Applied machine learning to detect hand gestures and provide immediate responses.Integrated API for delivering exercises and quiz content dynamically.Technologies used: Android, Jetpack Compose, Machine Learning.
Story-App  Developed a storytelling application as the final project for an intermediate Flutter course. <ul style="list-style-type: none">Implemented story creation features to allow users to craft own stories.Integrated paginated story lists and geographical mapping.Developed an authentication page to ensure secure access.Technologies used: Flutter, Dart, Google Maps.
Cancer Detection  Developed an application to detect potential cancer indicators using image analysis. <ul style="list-style-type: none">Implemented ML model integration for visual diagnosis.Integrated storage of detection history using Room database.

- Added functionality to fetch the latest news and updates about cancer from an external API.
- Technologies used: Android, Kotlin, Machine Learning, Room.

Patroli Karhutla

Aug 2024 - Present

Developing a field patrol application to monitor forest and land fire activities..

- Implemented fire suppression result classification using machine learning to assess its severity.
- Integrated offline patrol data storage using Room Database.
- Added an auto-save feature when users input data.
- Retrieved patrol hotspot data from an external API for map visualization.
- Technologies used: Android, Kotlin, Machine Learning, Room.

Portal Perpustakaan

Oct 2024 - Nov 2024

Developed an agricultural portal mobile application using Flutter.

- Implemented user authentication for secure access.
- Provides a map for displaying agricultural library locations.
- Built a blogging platform for content sharing and access.
- Technologies used: Flutter, Dart, Open Street Maps dan pocketbase.

SKILLS

Libraries/Frameworks: Flutter

Databases: PostgreSQL, MySQL

Tools / Platforms: Visual Studio Code, Android Studio, Git, Pocketbase, Firebase

Programming Languages: Dart, Kotlin, JavaScript, Python, C++, C

CERTIFICATIONS

- **Android Developer Expert** – Dicoding, 2024
- **Dev Certification for Android (DCA)** – dev.id, 2025
- **Belajar Pengembangan Aplikasi Android Intermediate** – Dicoding, 2024
- **Belajar Penerapan Machine Learning untuk Android** – Dicoding, 2024
- **Belajar Fundamental Aplikasi Android** – Dicoding, 2024
- **Belajar Pengembangan Aplikasi Flutter Intermediate** – Dicoding, 2023
- **Belajar Fundamental Aplikasi Flutter** – Dicoding, 2023
- **Front-End Web Developer Expert** – Dicoding, 2025
- **Belajar Machine Learning untuk Pemula** – Dicoding, 2024