

MUHAMAD REZA CAHYONO

ANDROID DEVELOPER

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PROFILE

Android Developer with experience in building, maintaining, and scaling mobile applications using **Kotlin** and modern Android architecture. Proven track record in developing production-ready applications, building SDKs, refactoring legacy systems, and improving application stability. Experienced in **REST API integration, MVVM architecture, Firebase, Room, Jetpack Compose, and unit testing with JaCoCo**. Adept at collaborating with cross-functional teams to deliver high-quality, scalable, and user-focused mobile solutions.

PROFESSIONAL EXPERIENCE

Android Developer, Aleph Labs
Jakarta Selatan

Sept 2024 to Present

MyXL Application

During my role as an **Android Developer**, I was responsible for developing, enhancing, and maintaining features for a large-scale production mobile application while collaborating closely with cross-functional teams.

Key responsibilities and achievements include:

- Developed and enhanced application features based on **Product Requirement Documents (PRDs)** and design specifications, including features enabling **First Media user migration** to access services via the mobile application.
- Developed an **Android SDK for Customer Identity and Access Management (CIAM)** to support user authentication and identity access workflows.
- Built internal **tools for running unit tests using JaCoCo**, providing insight libraries to improve visibility into **unit test coverage and code quality**.
- Refactored **legacy code** to reduce technical debt and improve code maintainability and scalability.
- Collaborated directly with the **technical lead** to translate PRDs into production-ready features.
- Coordinated with the **QA team** for testing, validation, and release readiness.
- Monitored application performance, resolved bugs, and improved overall **application stability and crash-free rate**.

Pegadaian

Contributed to the development of a **Proof-of-Concept (PoC)** mobile application focused on document recognition and automated data extraction.

Key responsibilities and achievements include:

- Developed an **OCR-based feature using Tesseract** for extracting text from captured images.
- Implemented image processing workflows to improve **text recognition accuracy**.
- Integrated OCR functionality into the Android application using **Kotlin**.
- Built prototype features to demonstrate the feasibility of **automated document data capture** in mobile environments.

BRI Design System (Mobile Component Library)

Contributed to the development and implementation of the **BRI Android Design System** to ensure UI consistency and reusability across mobile applications.

Key responsibilities and achievements include:

- Built reusable **UI components using Jetpack Compose** based on official **design specifications**.
- Implemented **atomic design principles**, including **atom-level components** for scalable UI development.
- Developed **reusable component libraries** to improve development efficiency and maintain UI consistency.
- Implemented **component behavior aligned with Figma design specifications**.
- Ensured components followed **design tokens and UI standards** defined in the design system.

Integration Developer, CIMB Niaga
Tangerang Selatan

Feb 2023 to Jun 2023

During my internship at **CIMB Niaga**, I worked as an **Integration Developer**, contributing to enterprise integration and API development initiatives within a corporate environment.

Key responsibilities and achievements include:

- Designed and documented **API design systems**, including integration architecture and data flow diagrams.
- Developed integration applications using **IBM App Connect Enterprise**, focusing on data mapping, routing, and system-to-system communication.
- Developed and maintained APIs using **IBM API Connect**, implementing data flows based on business and technical requirements.
- Implemented data validation and transformation logic using **ESQL** and **JavaScript**.
- Prepared **technical documentation** and **service parameter forms** to support implementation and maintenance.
- Executed deployments to **System Integration Testing (SIT)** and **User Acceptance Testing (UAT)** environments.
- Implemented monitoring mechanisms to track integration performance and system health.

Android Developer, Dicoding Indonesia
Jakarta Selatan

Aug 2022 to Dec 2022

During my participation in the **Dicoding Batch-3 MBKM Learning Path**, I completed an independent study program focused on Android development, combining self-paced learning, instructor-led training, mentoring, and a product-based capstone project.

Key responsibilities and achievements include:

- Completed the **Android Developer Learning Path**, covering:
 - Programming logic fundamentals
 - Git and GitHub version control
 - Kotlin programming
 - Fundamental and intermediate Android application development
 - SOLID principles
 - Basic UX design
- Participated in **Instructor-Led Training (ILT) – Mobile Development**, including:
 - Kotlin programming basics
 - Fundamental and advanced Android application development
 - Advanced UI and accessibility
 - Service implementation and submission handling
 - Geo-location features and submissions
- Attended **soft skills workshops** covering productivity, growth mindset, professional ethics, communication, networking, business presentation, personal branding, and interview preparation.
- Joined **weekly mentoring and consultation sessions** to discuss technical challenges, project progress, and learning outcomes.
- Collaborated in a **team-based capstone project** to build an Android application named “**DiTalent**”, designed to connect **MSMEs (UMKM)** with influencer talents to support product promotion and economic growth in Indonesia.
- Contributed to application development, feature implementation, and team coordination during the capstone project.

Through this program, I gained strong foundational skills in Android development, software engineering best practices, teamwork, and professional communication.

Freelance Android Developer, Si Payung EmakKu UPTD PPA
Jakarta Selatan

Apr 2022 to Jun 2022

As a **Freelance Android Developer**, I collaborated with the **Women and Children Protection Unit (PPA) of North Kalimantan Province** to develop a reporting and prevention mobile application supporting public safety initiatives.

Key responsibilities and achievements include:

- Designed the **database schema and Entity Relationship Diagram (ERD)** based on functional requirements.
- Designed and implemented **UI/UX interfaces** with a focus on usability and responsiveness.
- Developed the Android application using **Kotlin**, following Android development best practices.
- Integrated backend services using **Retrofit** for API communication and data handling.
- Implemented **local data caching** using the **Room Persistence Library** to improve performance and offline access.
- Applied the **Model-View-ViewModel (MVVM)** architecture to improve maintainability and testability.
- Collaborated with stakeholders to refine requirements and adapt solutions to project constraints.

Android Developer, Puri Hijau Cinere
Jakarta Selatan

Feb 2022 to Mar 2022

I was responsible for designing and developing the **Puri Cinere Hijau (PCH) Waste Bank** Android application, a project focused on environmental sustainability and community empowerment.

Key responsibilities and achievements include:

- Redesigned the **Entity Relationship Diagram (ERD)** based on client requirements, transforming the data model from **one-to-one (1:1)** to **one-to-many (1:N)** relationships.
- Designed **UI/UX interfaces** following **Material Design guidelines** to ensure a consistent and intuitive user experience.
- Developed the Android application using **Kotlin**, implementing the redesigned ERD and approved UI.
- Integrated the application with a **serverless Firebase backend**, including authentication, real-time data synchronization, and cloud storage.
- Implemented a **dual-role authentication flow** to support different access levels for **tellers** and **customers**.
- Worked closely with stakeholders to ensure alignment with operational and sustainability goals.

EDUCATION

Budi Luhur University
Bachelor degree, Jakarta Selatan

Sept 2020 to Jun 2024

Final Project / Thesis Project

GODIR is a face recognition–based attendance application developed as part of my final project title:
Implementation of CNN MobileFaceNet and Cosine Similarity for Face Verification on Android Platform Attendance.

The application enables automatic attendance by verifying user identity through facial features using deep learning models.

Key responsibilities and achievements include:

- Designed and implemented a **face verification system** using **MobileFaceNet (CNN)** for facial feature extraction.
- Applied **cosine similarity** to measure facial embedding similarity for identity verification.
- Built an **Android-based attendance application** that performs automatic presence verification using camera input.
- Preprocessed face images to a fixed resolution and normalized input for model inference.
- Evaluated model performance using **accuracy, precision, recall, F1-score, and confusion matrix**.
- Optimized the model pipeline to run efficiently on **CPU-only environments** without GPU acceleration.
- Integrated the verification pipeline into the Android application workflow for real-time attendance validation.

This project strengthened my skills in **computer vision, deep learning, Android integration, and performance optimization**, while delivering a practical biometric-based attendance solution.

AREAS OF EXPERTISE

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|-----------------------------------|--|------------------------|--|
| • Android Application Development | • Mobile App Architecture & Clean Code | • REST API Integration | • Performance Optimization & Stability Improvement |
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TECHNICAL PROFICIENCIES

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|------------------------------|---|
| Mobile Development: | Kotlin, XML, Jetpack Compose, Kotlin Multi Platform, Android Studio |
| Android Architecture: | MVVM, MVP, Clean Architecture |
| API Integration: | Retrofit, KTOR, Volley |
| Storage: | Room Database, Firebase |
| Testing Quality: | JaCoCo, Mockk, SonarQube, Junit |

PROFESSIONAL TRAINING

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|---------------------------------------|----------------------|
| Android Developer, Udemy | Jan 2024 to Jan 2026 |
| Android Developer, Dicoding Indonesia | Dec 2022 to Dec 2025 |
| Junior Pogrammer, LSPB Budi Luhur | Oct 2024 to Oct 2024 |