

Naufal Altaf

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Education

Mercu Buana University

Jakarta, Indonesia

Bachelor of Science, Information Systems. GPA 3.66.

May 2026

Completed all requirements in 3.5 years

Relevant Coursework: Database Design, Java Programming, Data Structures, Machine Learning.

Experience

IEEE International Conference (ICOT 2025)

Bandung, Indonesia

Developer & Researcher

March 2025

- Developed and published "Heart Disease Prediction Model using SEL-NNML Framework" (DOI: 10.1109/ICOT68409.2025.11425174).
- Engineered a stacking ensemble learning model using Python, integrating deep learning architectures with traditional ML classifiers (Random Forest, XGBoost, etc).
- Designed high-performance data preprocessing pipelines and hyperparameter optimization strategies to improve model generalization.
- Collaborated in a peer-led trio to finalize a technical manuscript and present research findings at an international forum.

Bangkit Academy (by Google, GoTo, Traveloka)

Remote

Mobile Development Cohort

Aug 2024 – Dec 2024

- Developed Plantanist, an Android application leveraging Machine Learning to identify plant diseases via real-time camera imagery.
- Built the mobile frontend using Kotlin and integrated custom-trained Keras/TensorFlow models for on-device inference.
- Implemented Clean Architecture (MVVM) and SOLID principles to ensure a scalable and maintainable codebase.
- Collaborated in a cross-functional team (ML, Cloud, and Mobile) to manage the full project lifecycle from planning to execution.

Android System & AOSP Development

Personal Research

Independent Developer

2019 – Present

- Executed AOSP bringup for device trees on the Qualcomm Snapdragon 8 Elite (SM8750) platform, focusing on system-level integration and hardware abstraction.
- Developed and maintained kernel patches and device-specific trees for legacy platforms (SDM710, SM8150) to optimize performance and system stability.
- Managed Git-based workflows and Gerrit for tracking hardware-level patches and community-led distribution branches.

SIMBELMAWA (Program Kreativitas Mahasiswa)

Jakarta, Indonesia

Technical Lead / Designer

Jun 2023 – Nov 2023

- Designed a concept Heads-Up Display (HUD) system integrated into smart glasses for real-time navigation and contextual information.
- Applied design-thinking and user-oriented system design to bridge futuristic hardware concepts with practical UX requirements.

Skills & Interests

- **Technical:** Python (NumPy, Scikit-Learn, PyTorch, TensorFlow), Kotlin, Java, TypeScript, C++, CUDA, Linux CLI, Git/GitHub, RESTful APIs, AOSP, Docker, Oracle Database Design.
- **Certifications:** Cisco CCNA v7, Oracle Java Programming, Oracle Database Design, Dicoding Intermediate Android.
- **Language:** Native Indonesian and Fluent English.
- **Interests:** Hardware assembly, Illustrations, Fiction novels, Comic books.