

ARIEF MUHAMMAD USRY

Fullstack Software Engineer

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EXECUTIVE SUMMARY

Fullstack software engineer with hands-on experience building and shipping production web and mobile applications end-to-end, including freelance client projects delivered independently for paying clients. Skilled in Flutter, Laravel, and Supabase, with a track record spanning an internship at PT Pos Indonesia, freelance client work, and academic leadership. Complements this with applied machine learning experience, including an undergraduate thesis on neural network optimization accepted for presentation at an international conference. Graduated from Informatics at Telkom University (GPA 3.77/4.00, August 2026), seeking to bring a build-and-ship mindset to a software engineering team.

WORKING EXPERIENCE

Fullstack Developer (Intern) at PT Pos Indonesia (Persero), Bandung

Jun 2025 – Sep 2025

- Developed a mobile application using Flutter and a companion web application using Laravel, implementing consistent features across both platforms for a unified user experience.
- Used Supabase as the shared backend to manage and synchronize data in real time between the mobile and web applications.
- Built the **Meeting Room Management System** (Flutter + Supabase) to handle real-time room reservations and availability for PT Pos Indonesia's Cilaki and Banda offices, available at github.com/ariefusry.
- Delivered the mobile application as a fully functional product ready for testing and deployment, while the web application reached roughly 70% completion within the internship timeframe.

Operating System Lab Assistant at Informatics Laboratory, Telkom University, Bandung

Feb 2025 – Jan 2026

- Guided lab sessions and assisted students in understanding operating systems concepts, including process management, memory management, file systems, and synchronization.
- Explained materials, evaluated student assignments and projects, and fostered an interactive, supportive learning environment.

ORGANISATIONAL EXPERIENCE

Evaluation Team at Telkom University PKKMB 2024 Committee, Bandung

Jun 2024 – Sep 2024

- Grouped incoming students by faculty and class using Microsoft Excel and assigned a Liaison Officer to each group.
- Designed the seating plan for orientation sessions in the Telkom University Convention Hall and managed the Student Fair event timetable.
- Evaluated performance and assigned tasks to new students to foster participation and accountability.

PROJECTS

Prediction of ER-LBD Toxicity using ANN Optimized by Grey Wolf Optimizer, Undergraduate Thesis, accepted for presentation at IC2IE 2026 (9th Int'l Conference of Computer & Informatics Engineering)

- Built an ML pipeline to predict estrogen receptor toxicity on the Tox21 dataset (8,751 compounds, 18.6:1 class imbalance), using Morgan fingerprints and physicochemical descriptors reduced to 500 features via Mutual Information.
- Optimized an ANN architecture using the Grey Wolf Optimizer, discovering a 3-layer hourglass network (54-32-128 nodes) that improved F1-Score from 0.5809 to 0.5946 and cut false positives from 37 to 22.
- Applied SMOTETomek resampling strictly within the training set to address class imbalance without data leakage.

INDETA, Tourism and UMKM Digitalization Platform, Paid Freelance Client Project, Fullstack

- Built a fullstack web platform independently end-to-end (Laravel, Tailwind CSS, Vite), covering destinations, categories, products, UMKM directories, and travel packages, plus a separate admin dashboard for content management.
- Owned the full lifecycle from database design to deployment, delivering a live, paid client product on Vercel, available at github.com/ariefusry/INDETA.

SUGIH, Company Profile Website for a Kretek Brand, Paid Freelance Client Project (2-person team), Fullstack

- Collaborated with one other developer to build the platform for a paying client, focusing on the backend using Laravel and Supabase (PostgreSQL, Auth, Storage) to manage company, product, and article data, with select frontend contributions.
- Deployed the application on Vercel, delivering a live marketing platform for the client, available at github.com/ghazyfadhal/sugih.

AUTENTIK, Certificate Verification System, Academic Project, Computing Project Course, served as Project Manager

- Coordinated a web platform using Mantranet-based verification infrastructure integrated with text detection and matching algorithms to validate certificate authenticity, available at github.com/ghazyfadhal/autentik-laravel.
- Orchestrated the project timeline and served as the primary liaison between the development team, project supervisor, and academic advisor to align deliverables with requirements.

FlexiTask, Smart To-Do List with Integrated Chatbot Assistant, *Team Project (2025)*

- Built a minimalist to-do list application with an AI-powered chatbot assistant, using the Llama LLM to let users ask questions about their tasks through conversational support, available at github.com/MaNdeZZZ/FlexiTask_Mobile.

CariMakan-Yu, Campus Food Recommendation App, *Team Project (2024)*

- Built a campus-centric food recommendation app for the Telkom University area, featuring restaurant ratings, menu listings with prices, and location mapping to help students discover dining options, available at github.com/Zramzek/CariMakan-Yu-APP.

EDUCATION

Undergraduate in Informatics at *Telkom University, Bandung*

Sep 2022 – Aug 2026

- GPA 3.77 of 4.00. Graduated (yudisium) August 2026; graduation ceremony November 2026.

SKILLS & CERTIFICATIONS

- **Technical:** Flutter, Dart, Laravel, PHP, Blade, Supabase, PostgreSQL, MySQL, REST API, Python, Golang, C++, Java, HTML, Bootstrap, Vite, Git/GitHub, Linux, UI/UX Design
- **Machine Learning:** TensorFlow/Keras, Scikit-learn, Pandas, NumPy, RDKit, NiaPy
- **Tools:** VS Code, Android Studio, Figma, Vercel, Draw.io, Jupyter Notebook, Trello, Claude Code, GitHub Copilot, Cursor, Antigravity, Kiro
- **Certifications:** ECCT (English Communicative Competence Test), Score 3.00 (Mar 2023) | EPrT (English Proficiency Test), Score 540 (Mar 2026)
- **Languages:** Bahasa Indonesia (Native), English (Intermediate)