

Ahmad Badawi

Software Engineer · Web, Mobile & IoT

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SUMMARY

Software engineer who builds Laravel web apps and Flutter mobile apps, currently developing HRIS software at PT Suri Nusantara Jaya. Hands-on experience across full-stack web, mobile, IoT, and machine learning, from enterprise internal tools to hackathon prototypes. Built the mobile app and ML API for GLUVER, a needle-free glucose monitor that won a Gold Medal at IIIEX 2025 and 2nd place (IoT) at KMIPN VII 2025. Graduated in 2026 with a 3.91 GPA and was named Top Academic Achiever of the Electrical Engineering Department.

WORK EXPERIENCE

HRIS Developer · PT Suri Nusantara Jaya Sep 2026 – Present
Tebet, Jakarta

- Developing the company's human resources information system (HRIS) with Laravel 12, Filament 3, and Livewire as part of a multi-developer team.
- Employee offboarding:** built exit interviews, a clearance workflow with PIC assignments and approvals, replacement-employee assignment, and Google Drive archiving of attachments.
- Attendance:** built absence (mangkir) detection with attendance import and a monitoring dashboard.
- Compensation & benefits:** built a salary management resource.
- Infrastructure:** wrote MySQL-to-PostgreSQL data migration tooling and set up Docker blue-green staging deployments with automatic rollback through GitHub Actions.

Tech: Laravel, Filament, Livewire, PostgreSQL, Docker, GitHub Actions

Engineer Intern · Temucita Apr 2026 – Jun 2026
Jakarta

- Developed the backend for the core session-booking platform with Next.js 16, TypeScript, and Prisma, covering the full booking lifecycle.
- Prevented double bookings during traffic spikes with PostgreSQL database transactions.
- Automated event scheduling through the Google Calendar API, with cron jobs sending email reminders to participants.

Tech: Next.js, TypeScript, Prisma, PostgreSQL, Google Calendar API

Full Stack Developer Intern · PT Akebono Brake Astra Indonesia Aug 2025 – Dec 2025
Kelapa Gading, Jakarta

- Designed and deployed integrated modules for the company's internal "Super App", streamlining workflows for the IT, HR, and Audit departments.
- IT Helpdesk:** ticketing with incident management (IT & IoT), SLA reporting, and a real-time monitoring dashboard.
- Intern HRIS module:** attendance tracking, leave and permission management, and automated transport allowance calculation.
- Audit & security governance:** user access review (UAR), access matrix (UAM), and audit trails.
- Tax & finance tools:** Coretax reporting and payment memos.

Tech: Laravel, PHP, MySQL, PostgreSQL, Bootstrap, Git

EDUCATION

Associate Degree (A.Md.), Informatics Engineering · Politeknik Negeri Semarang Sep 2023 – Aug 2026
GPA 3.91 / 4.00 · Focus on web and mobile application development

AWARDS & HONORS

- Top Academic Achiever**, Electrical Engineering Department, Politeknik Negeri Semarang (2026)
- 2nd Place, Internet of Things**, KMIPN VII 2025 (National Polytechnic Informatics Student Competition), hosted by Politeknik Negeri Padang, team GLUVER (Oct 2025)
- Gold Medal, Electronics & IoT**, Indonesia International Invention Expo (IIIEX) 2025, for "GLUVER: Non-Invasive Blood Glucose Monitoring Using Machine Learning Based on IoT" (Aug 2025)
- IYSA Special Award, Electronics & IoT**, IIIEX 2025, presented by the Indonesian Young Scientist Association (IYSA), for the GLUVER project (Aug 2025)

SELECTED PROJECTS

GLUVER: Non-Invasive Glucose Monitor · *Mobile app & ML API developer, team project*

IoT system that estimates blood glucose without a needle: an ESP32 with a MAX30102 finger sensor streams pulse data to Firebase, a scikit-learn model predicts glucose, and a Flutter app shows the reading live.

Tech: Flutter, Firebase, ESP32, Python, scikit-learn, Flask | github.com/lniwizzy/glucose_app

JKN-Flow: Hospital Management System · *Full-stack developer, top contributor (Healthkathon 2025, 4-day sprint)*

Hospital system for Indonesia's JKN health insurance: room allocation, patient visits, medical records, inventory, billing, and BPJS claim checks, with a Gemini-powered patient chatbot built by a teammate. Built the admin modules and a rule-based claim fraud-scoring engine.

Tech: Laravel 11, PHP, PostgreSQL, Tailwind CSS, Alpine.js

TuNetic: Waste Management Platform · *Full-stack developer, 8-person team*

Waste management web app for Tembalang, Semarang: pickup requests, illegal-dumping reports, collection points, truck routes, and schedules. Built the auth flow (Google login, email verification) and admin dashboards.

Tech: Laravel 11, MySQL, Bootstrap 5, Chart.js, Leaflet | github.com/faizismail06/TuNetic

Arena Connect: Sports-Field Booking App · *Flutter developer, repo owner and top contributor*

Flutter app for sports-field owners to list venues, set schedules and prices, confirm bookings and payments, and track revenue; merged with the customer app into one role-based build.

Tech: Flutter, Dart, REST API, Figma | github.com/lniwizzy/arena-connect-owner

Academic RAG Assistant · *Full-stack developer*

Research-paper Q&A assistant: users upload PDF or DOCX papers into ChromaDB collections and query them through a LangChain tool-calling agent that searches both the documents and the web.

Tech: Python, FastAPI, LangChain, ChromaDB, React, Tailwind CSS | github.com/lniwizzy/rag-academic-agent

Microsleep Detector · *Mobile & ML developer*

Flutter app that classifies eyes as open or closed in real time using an on-device TensorFlow Lite model (MobileNetV2) and shows live counts and statistics; a first step toward microsleep warnings for drowsy drivers.

Tech: Flutter, Dart, TensorFlow Lite, MobileNetV2 | github.com/lniwizzy/microsleep_app

Larva Land · *Game developer, 4-person team*

Unity 2D educational mini-game collection: 9 traditional Indonesian instruments, an Indonesian vs Japanese food-sorting game, and a 2-player Pong-style match.

Tech: Unity 6, C# | github.com/lniwizzy/larva_land

CERTIFICATIONS & COURSES

- **MikroTik Certified Network Associate (MTCNA)**, MikroTik, credential ID 2602NA3764 (Feb 2026)
- **Microsoft Azure AI Fundamentals**, Microsoft
- **R Programming Bootcamp for Absolute Beginners**, Udemy (Sep 2025)
- **Database Programming with SQL**, Oracle Academy (Dec 2024)
- **Database Design**, Oracle Academy (Oct 2024)
- **Ethical Hacker**, Cisco Networking Academy (Jun 2024)

SKILLS

Programming:	PHP, JavaScript, TypeScript, Dart, Python, C#, SQL
Web & Backend:	Laravel, Livewire, Filament, Next.js, Prisma, FastAPI, Flask, Express, React, Tailwind CSS, Alpine.js, Bootstrap
Mobile:	Flutter, Firebase, SQLite, REST APIs
AI, ML & Data:	scikit-learn, TensorFlow Lite, LangChain, RAG (ChromaDB), Azure AI, pandas, R
IoT & Networking:	ESP32, MAX30102 sensor, MQTT, MikroTik RouterOS
Databases:	MySQL, PostgreSQL, Firebase Realtime Database, Cloud Firestore
DevOps & Tools:	Docker, GitHub Actions, Git, Vite, Unity, Figma, VS Code, Photoshop
Spoken Languages:	Bahasa Indonesia (native), English (professional working proficiency)