

MUHAMMAD ADILAGA

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Web & AI Developer — Cirebon, Indonesia

PROFILE

Web & AI Developer and Informatics graduate (Universitas Nahdlatul Ulama Cirebon) building fast, reliable web applications and practical AI systems. Experienced with Next.js, React, TypeScript, Laravel, PHP, and Python — from full-stack platforms and REST microservices to applied machine learning and local LLM workflows. Led faculty-level student committees and thrives in cross-functional teams.

FEATURED PROJECTS

ML Playground — No-Code Machine Learning Web App (2026)

Next.js 14 · FastAPI · scikit-learn · ml.muhadilaga.my.id

- Upload CSV datasets, train scikit-learn models (decision tree, random forest), visualize results, and generate a ready-to-use /predict REST API.
- Live frontend on custom domain; backend on Railway; open-source on GitHub.

LeafGuard — Plant Pest Detection Platform

Laravel · PHP · MySQL · Python FastAPI · YOLO

- Web platform paired with a YOLO object-detection microservice that identifies plant pests from uploaded images via REST API.

AI Job Agent — Local LLM Application Workflow

Python · SQLite · Ollama

- Privacy-first CLI workflow matching qualifications against job descriptions with local LLMs — zero API cost, explicit user approval.

Smart Home Energy Monitoring — Undergraduate Thesis (2026)

ESP32 · IoT · Random Forest

- ESP32 sensor telemetry combined with Random Forest regression for household energy-efficiency analysis.

TECHNICAL SKILLS

- Languages: JavaScript, TypeScript, PHP, Python
- Frameworks: React, Next.js, Laravel, FastAPI
- Databases: PostgreSQL, MySQL, SQLite
- Tools & concepts: Git, GitHub, REST API, Prisma, JWT, Vitest, Playwright, Vercel, Railway, AI-assisted development

LEADERSHIP & ORGANIZATION

- Chair of Organizing Committee — Grand Assembly (Mubes), BEM Faculty of Computer Science, UNU Cirebon (2025)
- Coordinator of Youth & Sports Division — BEM Computer Science, UNU Cirebon (2024–2025)

EDUCATION

Universitas Nahdlatul Ulama Cirebon — B.S. Informatics (2022-2026)

Thesis defended; awaiting graduation. GPA: 3.46/4.00. Thesis: "ESP32-Based Smart Home Energy Monitoring with IoT Using Random Forest Algorithm."

CERTIFICATIONS

- Google AI Essentials — Google / Coursera (Sep 2026)
- IT-AI Agent for Programming — IBM (Sep 2026)
- Spec-Driven Development with Kiro — Dicoding (Sep 2026)
- Belajar Prinsip Pemrograman SOLID — Dicoding (Aug 2026)
- Front-End & Back-End for Beginners — IBM SkillsBuild (2026)
- JavaScript Algorithms and Data Structures — HackerRank (2026)
- Full list of 17 certifications: [linkedin.com/in/muhammad-adilaga-b9717a386](https://www.linkedin.com/in/muhammad-adilaga-b9717a386)

PUBLICATION

Adilaga, M., et al. (2025). Collaboration on MSME Digitalization and Village Profile Video Production in Ciawigajah as a Means of Promoting Local Potential. Proc. National Seminar on Community Service, 5(1).

LANGUAGES

Indonesian (fluent); English (basic).