

Dhimas Nurhidayat

dhimasdn15@gmail.com | +62 895-1610-7824 | Tangerang Selatan

PROFILE

Informatics Engineering student at Universitas Pembangunan Jaya with experience in Artificial Intelligence, Machine Learning, IoT, NLP, and Web Development projects. Experienced in developing intelligent dashboards, real-time monitoring systems, and computer vision applications using Python, Laravel, Next.js, YOLOv12, Electron.js, HiveMQ, and ESP32 integration. A fast learner, adaptive team player, and problem solver with strong interest in technology innovation and software engineering.

EDUCATION

Universitas Pembangunan Jaya

Informatics

2023 - Present

Cumulative GPA: 3.5/4.0

SMK Letris Indonesia 1

Multimedia

2020 - 2023

PROJECT EXPERIENCE

YOLOv12 Vehicle Detection System

2026

- Developed a real-time vehicle detection and classification system using YOLOv12.
- Implemented Bus, Sedan, and Truck classification with interactive monitoring dashboard.
- Built confidence threshold, IoU settings, live statistics, and JSON export features.

IoT Poultry Monitoring Dashboard

2026

- Developed an IoT-based poultry monitoring dashboard using Electron.js and HiveMQ MQTT integration.
- Implemented real-time monitoring features for temperature, humidity, water level, alarms, and device control.
- Integrated ESP32-based IoT devices for smart poultry cage management.

Smart Environment Monitoring & Machine Learning Dataset System

2026

- Developed environmental monitoring dashboard using Python Tkinter and ESP32 integration.
- Collected real-time sensor datasets from MQ-2, MQ-135, humidity, temperature, and LDR sensors.
- Implemented automatic CSV dataset logging for machine learning preparation.

Maternal & Breastfeeding Monitoring Dashboard

2026

- Developed a web-based healthcare dashboard for monitoring pregnant and breastfeeding mothers.
- Built healthcare reporting and data management features for community healthcare volunteers.

IoT Egg Incubator Monitoring Dashboard

2026

- Developed an IoT egg incubator monitoring dashboard using Electron.js and HiveMQ MQTT communication.
- Built real-time monitoring systems for incubator temperature, humidity, incubation period, and actuator control.
- Integrated ESP32 sensors and automation systems for smart egg incubation management.

WORK EXPERIENCE

PT Muhammad Syahri Purnama

December 2021 - February 2022

Graphic Designer & Brand Staff

- Created sales reports, promotional designs, and marketing materials.
- Assisted in branding and digital content creation activities.

PT Manunggaling Rizki Karyatama Telnics

July 2026 - August 2026

AI Backend Engineer Intern

- Developed backend services for a Smart Traffic AI and ATCS platform.
- Integrated YOLO-based computer vision inference with backend APIs and monitoring dashboards.
- Processed and managed vehicle detection data for real-time traffic monitoring and analytics.
- Supported integration between AI services, backend systems, databases, and frontend applications.

ORGANIZATIONAL & TEACHING EXPERIENCE

Himpunan Mahasiswa Informatika

Training Division Coordinator

2025 - 2026

- Coordinated organizational training programs and student activities.
- Managed teamwork coordination and event preparation activities.

B3 (Belajar Bareng BASIC)

HTML Course Instructor

August 2025

- Delivered HTML learning materials for beginner students.
- Guided participants in understanding the fundamentals of web development and HTML structure.

FORKABES

Web Development Instructor

November - December 2025

- Served as a speaker and instructor for HTML, CSS, and JavaScript materials.
- Assisted participants in learning front-end web development concepts and implementation.

Universitas Pembangunan Jaya

Teaching Assistant - Embedded System for Robotics

2026

- Assisted lecturers during Embedded System for Robotics laboratory and learning sessions.
- Guided students in robotics programming, sensor integration, and embedded system implementation.

SKILLS

- **Programming & Development:** Python, JavaScript, PHP, Laravel, Next.js, Electron.js, MySQL
- **AI & Data:** Machine Learning, NLP, LSTM, YOLO, Computer Vision
- **IoT & Tools:** ESP32, HiveMQ, MQTT, Tkinter