

# NUR CAHYO ADI SAPUTRA

Magelang, ID | P: [+6285786303017](tel:+6285786303017) | [adisaputra1523@gmail.com](mailto:adisaputra1523@gmail.com) | Portfolio: [adisaputra-tech.my.id/](https://adisaputra-tech.my.id/) | GitHub: <https://github.com/adisaputra211>

Information Technology graduate (Cum Laude, GPA 3.88) with hands on experience in Frontend Development, Fullstack Web Development, IoT, and Freelance Technical Support. Built multiple real world web applications using React, Next.js, React Native, FastAPI, and PostgreSQL. Passionate about writing clean, maintainable code and continuously improving software engineering skills.

## EDUCATION

### State Islamic University of Walisongo

Semarang, IDN

Bachelor of Computer: Major in Information Technology

2021 - 2025

Cumulative GPA: 3.88/4.00 (Predikat: Cum Laude)

Skripsi: Sistem Penyiraman Tanaman Otomatis Berbasis IoT dengan Metode Fuzzy Logic Mamdani

## EXPERIENCE

### Staff Internship – Kominfo, Magelang Regency

Des 2023 – Feb 2024

- Performed data entry and managed the department's website database with high accuracy.
- Assisted with administrative tasks, activity documentation, and coordination with internal and external teams to support event execution.
- Contributed to front-end development of a village website using the CodeIgniter 2.5 framework.
- Provided technical support for events and daily operations.

### Freelance Hardware & Software Support | Freelance

Aug 2024 - 2026

- Performed installation and configuration of Windows operating systems (including Windows 10 and 11) and productivity software (Microsoft Office) for personal clients.
- Provided laptop hardware maintenance and repair services, such as keyboard replacement, LCD replacement, and thermal paste application.
- Conducted troubleshooting and diagnosis of various technical issues on laptops/PCs, and provided appropriate and efficient repair solutions according to client needs
- Handled 30+ clients for laptop repair and operating system installation.

## PROJECT

### Internet of Things (Undergraduate Thesis)

- Developed a system integrating temperature and soil moisture sensors (IoT) with a microcontroller (ESP32/Arduino) for real-time monitoring.
- Built a web-based dashboard to monitor plant conditions remotely.
- Implemented Fuzzy Logic using the Mamdani method to improve the accuracy and efficiency of watering decisions based on sensor data.

### Data Management Website Development | Internship Project & Portofolio

- Served as a Fullstack Developer on a team that built an integrated information system for village office administrative needs using the CodeIgniter 2.5 framework.
- Built a village inventory management system to record, monitor, and manage village-owned assets and goods.
- Developed back-end functionality including application logic, MySQL database connections, and CRUD (Create, Read, Update, Delete) systems for managing inventory and service registration data.
- Collaborated with the team to ensure all features were well-integrated and met the operational needs of the village office.
- Designed a simple and intuitive user interface (UI) to ensure ease of use for village officials and residents with varying levels of digital literacy.

### Personal Portfolio Website Development

- Designed and developed a personal portfolio website using Next.js to showcase projects and technical skills.
- Focused on performance optimization, responsive design, and writing structured and clean code.

### Task & Habit Tracker Mobile Application Development | Personal Project

- Built a task management and habit tracker mobile application for the Android platform using React Native and Expo Go.
- Implemented local storage-based data persistence using AsyncStorage to store all user task and habit data permanently on the device without requiring a backend or internet connection.

- Developed daily task addition features allowing users to record, edit, and mark tasks as completed.

#### **Manga & Manhwa Reading Platform | Tim Project**

- Developed a responsive web platform for browsing and reading manga/manhwa with an intuitive and user-friendly interface.
- Developed an automated content synchronization pipeline using web scraping techniques to collect and organize metadata from external sources.
- Optimized application performance through efficient data fetching, caching strategies, and responsive UI design.
- Integrated Supabase as the backend database for storing and managing comic metadata.

#### **Personal Finance Management Web App | Personal Project**

- Developed a comprehensive full-stack personal finance application using Next.js and React to effectively track daily income, expenses, and generate financial reports.
- Integrated Supabase and PostgreSQL for secure user authentication, database management, and robust data persistence.
- Implemented interactive dashboards featuring dynamic data visualization (charts), summary cards, and responsive navigation (sidebar and bottom nav) optimized for desktop and mobile devices.
- Leveraged Google Gemini AI to provide intelligent financial insights and personalized recommendations based on user transaction history.
- Utilized React Context API for efficient global state management and Tailwind CSS to design a modern, user-friendly interface with built-in Dark Mode support.

#### **TECHNICAL SKILLS**

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- **Web Development:** HTML, CSS, JavaScript, React, Next.js.
- **Backend & API:** Python (Flask, FastAPI), Node.js, PHP.
- **Mobile Development:** React Native (Basic), Expo Go.
- **Database:** SQL (Querying, Data Manipulation), MySQL, Supabase, PostgreSQL.
- **IoT & Hardware:** ESP32, Arduino, Sensor Integration.
- **Tools & Others:** VS Code, GitHub, Arduino IDE, Cloudflared, Canva.
- **Administration & Data Entry:** Microsoft Office (Word, Excel, PowerPoint), Data Management, Document Archiving.
- **Communication & Coordination:** Customer Service, Team Coordination, Reporting.
- **Hardware Support:** PC Assembly, Laptop Repair, OS & Driver Reinstallation.

#### **LANGUAGES**

- Indonesian: Native
- English: Conversational Proficiency