Muhammad Imam Alghifary

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PROFIL

I am a third-year undergraduate student at President University, majoring in Information Technology, with a growing interest and foundational knowledge in web development, Internet of Things (IoT), data analysis, and cloud services. I am a fast learner who quickly adapts to new environments and challenges. I take responsibility seriously and am committed to fulfilling my obligations with dedication and discipline.

EDUCATION

President University   **August 2023 – Present**

Bachelor of Information Technology, Concentration in Internet of Things (IoT) (3.93/4.00)

INTERNSHIP EXPERIENCE

Pusat Riset Elektronika – BRIN (Badan Riset dan Inovasi Nasional)   **April – May 2025**

Puspitek – South Tanggerang

Intern

- Developed both hardware and software to acquire electromagnetic data as part of a research project titled **"Autonomous Monitoring System for Electromagnetic Field."**
- Developed a dashboard to monitor real time data using Grafana.
- Collaborated with researcher from BRIN (Badan Riset and Inovasi Nasional) who served as the project supervisor.

PROJECTS

Inventory Management and Monitoring System   **July – August 2025**

KADA Bootcamp Project – Fullstack Web Development with intergrated IoT and AI

- Developed backend services to manage user authentication, inventory CRUD operations, and employee records using Node.js, Express, and MongoDB/Mongoose.
- Implemented a real time monitoring system connected to IoT sensors via MQTT, visualizing temperature, humidity, gas, and soil moisture data on an interactive dashboard.
- Designed and deployed an RFID-based employee attendance system, logging entries/exits and linking them to user profiles for security tracking.
- Integrated AI chatbot and AI data analyst features (Gemini API) to assist users in interpreting environmental data and providing actionable recommendations.
- Built a responsive React frontend with login, dashboard, inventory, employee, and notification pages, using dynamic charts, live sensor cards, RFID logs, and color-coded alerts for quick status checks.
- **Technologies Used:** HTML, CSS, TypeScript, React.js, Express.js, MongoDB, MQTT, Node RED, Arduino IDE

E-Commerce Website   **June 2025**

Personal Project

- Developed a simple online shop with features like product listing, detailed product pages, shopping cart, user login/register system and admin panel.
- Developed a dedicated admin panel to manage products, categories, and orders with full CRUD (Create, Read, Update, Delete) capabilities.

- Used Bootstrap for clean, responsive UI and Laravel's MVC architecture for backend logic and routing.
- Set up database structure using Laravel migrations.
- Employed Eloquent ORM for database interactions.
- **Technologies Used:** Laravel, PHP, MySQL, Blade, Bootstrap, Laravel UI.

Autonomous Monitoring System for Electromagnetic Field   **April – May 2025**

Research project during internship at BRIN (Badan Riset dan Inovasi Nasional)

- Developed a data acquisition system for the WALKSNAIL-M181 GPS and SA44B Signal Hound devices.
- Designed communication protocols and implemented middleware for transmitting GPS data via MQTT to a database.
- Created a program to handle Signal Hound data acquisition and store it to a database.
- Built and designed a **dashboard** to visualize and monitor live data transmission from both devices.
- **Technologies Used:** Grafana, Node.js, Python, MQTT, Arduino IDE, ESP32, WALKSNAIL-M181 GPS, SA44B Signal Hound.

Translator Mobile Application   **November - December 2024**

University Project

- Built a multi-functional Android app that translates text using Google ML Kit's Translate API, supporting real-time translation between English, Indonesian, French, and Spanish.
- Implemented speech-to-text to allow users to input voice and convert it into translatable text.
- Integrated OCR (Optical Character Recognition) using ML Kit Text Recognition to capture text from camera images and translate it automatically.
- Added functionality for language switch, camera permission handling, and bitmap image capture, enhancing usability and accessibility.
- **Technologies Used:** Android Studio, Java, ML Kit, Google Translate API.

ADDITIONAL TRAINING

Korea – Asean Digital Academy   **July – August 2025**

Full-Stack Development & AI Fundamentals Bootcamp

Organized by Elice

- Participating in a structured training program covering full-stack web development, cloud computing, and data fundamentals.
- Building practical team projects while learning modern development workflows, DevOps, and CI/CD practices.
- Engaged in hands-on learning with both frontend and backend technologies, as well as UI/UX design principles
- **Curriculum Highlights:** Data Analysis, Web Development (Basic to Advanced), Backend Development, DevOps & CI/CD, Cloud Services, UI/UX Design.

SKILLS AND TOOLS

- **Web Development:** HTML, CSS, JavaScript, Bootstrap, Tailwind CSS, PHP, Laravel, Node.js, React.js, Express.js, Flask
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase
- **IoT & Embedded Systems:** MQTT, Arduino IDE, Grafana, Microcontrollers (ESP32, ESP8266 and Arduino)
- **Programming Languages:** Java, Python, PHP, JavaScript
- **Other Tools:** Android Studio, Git, Github
- **Soft Skills:** Discipline, Adaptable, Responsible and reliable
- **Languages:** Indonesia (Native), English (Fluent)