

# MUHAMMAD FAKHRI ALAUDDIN

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I am a fresh graduate of the Computer Engineering Technology Program at IPB Vocational School with a strong interest in Backend Development, IT systems, and web technologies. I have experience in backend system development, including API design, database management, IT system troubleshooting, website programming, and IoT-based solutions. I am accustomed to working in project-based environments, providing technical support, and collaborating effectively to solve problems in a structured manner. I am a disciplined and results-oriented individual with a strong commitment to continuous learning and delivering high-quality outcomes.

## Work Experiences

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### AirNav Indonesia - Kota Tangerang, Banten, Indonesia

Oct 2025 - Present

#### Internship

- Designed and implemented RESTful APIs and CRUD modules to support business processes.
- Managed relational databases and supported CI/CD pipelines and production deployments.
- Contributed to NavEvent, an internal event management system that enabled real-time, paperless workflows, reduced administrative workload, accelerated certificate distribution, and provided real-time dashboards for event and participant monitoring.
- Contributed to the redevelopment of AirNav correspondence system using NestJS for the backend, modernizing the existing system to improve performance, scalability, and maintainability, supporting daily internal and external official communications (memos, dispositions, official letters, and document drafts).

### Dinas Ketahanan Pangan, Pertanian, dan Perikanan (DKP3) Kota Sukabumi - Sukabumi City

Aug 2024 - Nov 2024

#### Internship

- Contributed to the development of an AI-based fry counting system to improve production efficiency.
- Developed an AI-powered fry counting system using YOLOv5, Orange Pi Zero 3, and a static camera, achieving 95–97% detection accuracy.
- Designed a user-friendly interface with Python and Tkinter, enabling real-time monitoring, result export to Google Spreadsheet, and seamless data sharing via WhatsApp.

### Joglo Kebun Wangi - Bogor City

Jan 2024 - Apr 2024

#### Internship

- Developed an IoT-based website using JavaScript, Firebase, and Next.js to integrate hardware monitoring with a responsive web interface.
- Built and managed a real-time database in Firebase, ensuring accurate and reliable data synchronization between IoT devices and the web platform.
- Designed and implemented a modern, user-friendly UI to display real-time sensor data.
- Connected hardware devices to the website using the ESP8266 microcontroller, enabling seamless data transmission and monitoring.

## Education Level

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### Institut Pertanian Bogor - Bogor, Indonesia

Aug 2021 - Aug 2025

#### Bachelor of Computer Engineering Technology, 3.48/4.00

- Relevant Courses: Website Programming, Software Engineering, Advanced Computer Networks, Embedded System, Machine Learning, IoT System Project.
- Final Project : Improving the Efficiency of Ornamental Fish Seed Counting through Artificial Intelligence-Based Automation

## Organisational Experience

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### Akselerate Indonesia - Indonesia

May 2025 - Jun 2025

#### Project Manager

- As part of the Digital Future Leader program by @Akselerate.id, I had the opportunity to contribute directly in building and running a community called Nalar.Project.
- Through this community, we organize educational webinars with the theme : AI Blueprint 101: Work Up Salary, Business Up Turnover with AI which aims to provide insights to participants on how artificial intelligence (AI) can be utilized to develop careers and businesses, from CV creation, remote work, to optimizing business operations.
- I was actively involved from conceptualizing the activity, creating promotional materials (bumper videos & IG templates), collaborating with media partners, to playing a direct role as MC in the webinar.
- Through this project, I learned a lot about collaboration, communication, and the importance of building an impactful community in the digital era.

## Skills, Achievements & Other Experience

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- **Project** (2026): New Arsipku (AirNav correspondence system)
- **Project** (2025): NavEvent (Digital Platform for Efficiency and Transparency in Managing AirNav Indonesia Activities)
- **Project** (2025): HydroEye (automatic fish seed count machine learning-based intelligent system)
- **Project** (2024): IOT Website Monitoring Hydroponic Kale Plants
- **Certifications**: Certificate of Competence in Software Engineering (BNSP), Hardware Installation Supervisor (BNSP)
- **Soft Skills**: Team Work, Communication, Time Management, Problem-solving, Adaptability, Creativity
- **Hard Skills**: Web Development, IoT Embedded Systems, AI Machine Learning