

NABILA A'IDAH DIANI

Surabaya, Indonesia | aidahdiani@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION

Institut Teknologi Sepuluh Nopember – Surabaya, Indonesia

B.Sc. in Informatics Engineering - GPA 3.84/4.00 [[Transcript](#)]

2021 – 2025

- Assistant Lecturer in Digital Systems, Web Programming, Database Systems, Operating Systems, and Graph Theory.
- Thesis: *Malicious Event Detection System with Continuous Retraining and Distribution Shift Detection*
 - Built AI models using Autoencoders, Isolation Forest, Local Outlier Factor, and One-Class SVM for anomaly detection.
 - Implemented an automated pipeline to adapt with evolving data by using the predicted data as the next looping trained data to predict a new set of data.
 - Conducted experiments to handle distribution shift and maintain robustness of deployed models.

Bangkit 2024 Batch 1 – Indonesia

Cloud Computing

Feb, 2024 – Jun, 2024

- Distinction graduate, ranking in the top 10% of all cloud computing participants.
- Graduated with final score of 94.37/100 [[Transcript](#)]
- Managed to get into top 50 product track capstone project.

WORK EXPERIENCE

National Taiwan University of Science and Technology – Taipei, Taiwan

Research Assistant TEEP

June, 2025 – Sept, 2025

- Integrated Zabbix with LLMs and OpenWeb UI for automated issue detection and natural language query handling via FastAPI.
- Developed and applied RAG dataset for troubleshooting automation, leveraging cosine similarity to retrieve relevant context and enhance response accuracy.
- Linked LLMs with MCP to execute technical commands on local PCs, bridging natural language queries with real-world system actions.

PT Toyota Motor Manufacturing Indonesia – Jakarta, Indonesia

Software Engineer Intern

Sept, 2024 – March, 2025

- Designed a database schema for standardized Inspection and Repair business process across 4 manufacturing shops.
- Designed and developed wireframes and reusable UI components in Figma.
- Built 35+ RESTful APIs with Node.js (Express) and .NET using Onion Architecture and optimized SQL Server queries with Stored Procedures.
- Developed 8+ screens and 10+ UI reusable components using Vue.js.

ITS Nabu – Surabaya, Indonesia

Backend Developer

Oct, 2023 – Sept, 2024

- Implemented CRUD operations for 3 system management modules in Laravel PHP.
- Optimized databases and complex queries with MySQL.

ORGANIZATION AND VOLUNTEERING EXPERIENCE

Network Intelligent and Cyber Security Laboratory ITS – Surabaya, Indonesia

Laboratory Assistant and Administrator

Apr, 2023 – Aug, 2025

- Coordinated computer network practicums for 500+ students and 50+ assistant lecturers, covering topics such as deployment, CIDR, and Terraform.
- Coordinated events and workshops, including Docker, Linux, and deployment workshops which participated by more than 50+ participants each.

PROJECT

Nutriomatic

Backend Developer and Cloud Engineer

May, 2024 – Jun, 2024

- Chosen as top 50 capstone project out of 588 capstone projects at Bangkit 2024 batch 1.
- Engineered 92% of backend functionalities for AI-enabled nutrition app (user management, transaction, product catalog, and food scanning) using Golang. Here's the link to [my capstone backend repository](#).
- Integrated AI services with Google Cloud (Cloud SQL, Storage Buckets, App Engine).

BDC Team Satria Data ITS 2024 – Top 20 Finalist

Machine Learning Engineer

2024

- Implemented Support Vector Machine (SVM) for sentiment analysis, achieving 85.8% accuracy.
- Designed data preprocessing and feature engineering workflow to improve classification performance.
- Evaluated and tuned models to generate business insights from positive-negative categorized data.

CERTIFICATIONS & SKILLS

Certifications:

- Google Cloud Computing Foundations: Cloud Computing Fundamentals

Programming & Frameworks: Python, C, C++, Golang, .NET, Laravel, Node.js, Express.js, Vue.js

AI & Data Tools: Scikit-learn, TensorFlow, PyTorch, SVM, Autoencoders, Isolation Forest, LOF

Databases: SQL, MySQL, PostgreSQL, NoSQL, MS SQL Server

Cloud & DevOps: Google Cloud Platform, Docker, Git, Shell, JMeter

Languages:

- Indonesian – Native
- English – Advanced (Toefl iTP 593/677)
- French – Elementary (Delf A1 84/100)