

# D Z A C K Y A H M A D

Informatics Engineering Undergraduate | Data Enthusiast | Exploring Blockchain & Fintech

**A:** Malang, East Java, Indonesia    **P:** (+62) 895-4139-67160    **E:** dzackyahmad.career@gmail.com

**L:** [linkedin.com/in/dzacky-ahmad/](https://linkedin.com/in/dzacky-ahmad/)    **G:** [github.com/dzackyahmad-codes](https://github.com/dzackyahmad-codes)    **W:** [dzacky-portfolio.vercel.app/](https://dzacky-portfolio.vercel.app/)

## SUMMARY

Informatics Engineering undergraduate with experience in backend development, data mining, and project leadership. Actively exploring blockchain and fintech systems, with a solid foundation in AI-driven analytics. Curious, adaptable, and motivated to build scalable and impactful technology solutions.

## EDUCATION

- **Padjadjaran University, Sumedang, Indonesia** August 2023 - Present  
Bachelor's degree in Informatics Engineering – GPA: 3.90/4.00

## SKILLS

- **Programming :** Python, PHP, Java, SQL, C++, HTML, CSS, JavaScript
  - **Frameworks/Libraries :** React, Node.js, Flask, Streamlit, Tensorflow, Pytorch
  - **Tools:** Git, GitHub, VS Code, MySQL, Google Colab, Spreadsheets
  - **Soft Skills :** Curious, Problem-Solving, Collaborative, Adaptable, Time Management, Leadership

## PROJECTS

## **Task Management – Software Developer (CLI)**

## CLI-Based Task Management System

- Implemented structured data handling using data structures to store and manage task records.
  - Performed CRUD operations through an interactive CLI, including task status, priority, category, and history tracking.

Hogwarts Library – Backend Developer

Website-Based Library Management System

- Implemented backend logic using PHP and CodeIgniter 4 to handle application data flow.
  - Managed authentication and CRUD operations for book and borrowing data with MySQL database integration.

## **Noted – Backend Developer**

GUI-Based Productivity & Finance Tracking Application

- Implemented MVC architecture and DAO pattern to structure backend logic and data access using Java.
  - Managed backend features and integrated MySQL database to store and maintain data for tasks, notes, expenses, and user authentication.

Smart Network for Smart Campus – Network Engineer (Simulation)

Computer Networks Project – Faculty of Mathematics and Natural Sciences, Padjadjaran University

- Designed and simulated a hierarchical campus network with VLAN and inter-VLAN routing.
  - Configured IPv4/IPv6, DHCP, routing, and core network services, including secure network segmentation.

## **Student Well Being Analytical Dashboard - Backend Developer**

Streamlit-Based Data Mining Dashboard

- Built an analytical dashboard using Python and Streamlit, including data preparation pipelines (cleaning, integration, reduction, transformation, discretization, and visualization).
- Implemented and evaluated clustering algorithms (K-Means, DBSCAN, Hierarchical) to analyze student well-being patterns.
- Developed automated insight and action-oriented recommendations, translating analysis results into interpretable findings for non-technical users.

## **Chatbot HukumPedia - Project Manager**

Indonesian Legal Chatbot

- Led project planning and coordinated team tasks, timelines, and feature delivery.
- Oversaw chatbot content alignment, quality control, and project evaluation.

## **AI Content Maker - Full Stack Developer (Personal Project)**

AI-Based Content Script Generator

- Developed frontend and backend workflows, handling application logic, user input processing, and API integration to manage end-to-end data flow.

## **Image Classification - Machine Learning Developer (Personal Project)**

Fruits & Vegetables Image Classification

- Compared custom CNN and pre-trained models for image classification in an end-to-end workflow.
- Handled dataset preparation, model training, and evaluation independently.

## **Google Play Sentiment Analysis - Full Stack Developer (Personal Project)**

Indonesian Sentiment Analysis Platform

- Built an end-to-end full stack sentiment analysis system using IndoBERTweet, including backend logic flow, model integration, and automated Google Play review scraping.
- Designed and developed web and desktop (.exe) applications, supporting both automatic and manual sentiment analysis with positive, negative, and neutral outputs.

## **Organizations, Committees & Volunteer**

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### **Vice President of Himatif FMIPA Unpad 2025**

January 2025 - December 2025

Himatif FMIPA Unpad

- Led 13 bureaus and departments, managing a total of 115 members.
- Oversaw 36 programs and 4 committees during one full management term.
- Received 95.5/100 performance evaluation score for leadership and organizational contribution

### **Staff of Cadre Department Himatif FMIPA Unpad 2024**

February 2024 - December 2024

Himatif FMIPA Unpad

- Developed and conducted cadre training programs for 91 members, focusing on onboarding and skill development.

### **Project Supervisor of Character Building Season 2024**

June 2024 - October 2024

Himatif FMIPA Unpad

- Supervised 87 committee members and ensured quality execution of orientation, training, and team-building programs.

Padjadjaran University

- Supervised and managed a social action program for **40 participants**, coordinating educational sessions and program execution.

## CERTIFICATIONS & ACHIEVEMENT

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- TOEFL EPT — Score: 523 | 2025
- Finalist, GEMASTIK 2025 — Data Mining Category | 2025

## LANGUAGES

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- **Indonesian** — Native
- **English** — Intermediate (TOEFL EPT: 523)