# DZACKY AHMAD

Informatics Engineering Undergraduate | Backend Developer | Exploring Blockchain & Fintech

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## 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

- Developed an interactive CLI-based task manager using C++, implementing core data structures concepts.
- Implemented CRUD operations (Create, Read, Update, Delete) for task management.
- Designed filtering features to organize tasks based on priority, status, and categories.
- Built a task history system to track completed and previous tasks.

**Hogwarts Library – Backend Developer**

Website-Based Library Management System

- Developed backend functionality for a web-based library management system using PHP and CodeIgniter 4.
- Implemented authentication features including user login and registration.
- Built CRUD operations for book data and borrowing transactions.
- Integrated the application with a MySQL database to manage and persist data.

**Noted – Backend Developer**

GUI-Based Productivity & Finance Tracking Application

- Developed and maintained backend logic and core application features using Java.
- Implemented MVC architecture and DAO pattern to structure business logic and data access.
- Built and managed backend features including task management, notes, expense tracking, and user

authentication.

- Integrated and optimized MySQL database operations to ensure reliable data storage and retrieval.

**Smart Network for Smart Campus – Network Engineer (Simulation)**

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

- Designed and simulated a campus network using hierarchical topology with VLAN and Inter-VLAN routing.
- Configured IPv4/IPv6 dual-stack, DHCP, RIPv2, and core network services (DNS, Web, FTP, Email).
- Implemented secure segmentation and guest network access, connecting multi-campus sites via WAN.

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

Streamlit-Based Data Mining Dashboard

- Developed backend logic for an analytical dashboard using Python and Streamlit.
- Implemented the CRISP-DM framework across all stages: business understanding, data understanding, data preparation, modeling, and evaluation.
- Built end-to-end data preparation pipelines, including cleaning, integration, reduction, transformation, discretization and visualization.
- Applied and tuned clustering algorithms (DBSCAN, K-Means, Hierarchical) to analyze student well-being patterns.
- Designed an automated insight generation layer that translates clustering results into interpretable findings for non-technical users.
- Elevated analysis outcomes to the wisdom level, producing actionable recommendations and policy-oriented suggestions to support data-driven decision-making for student well-being initiatives.

**Chatbot HukumPedia - Project Manager**

Indonesian Legal Chatbot

- Led the planning and execution of HukumPedia, an Indonesian legal chatbot designed to provide legal information and guidance.
- Coordinated team tasks, timelines, and feature development to ensure project milestones were met.
- Oversaw chatbot functionality and content alignment with Indonesian legal context and user needs.
- Facilitated communication, monitoring, and evaluation to maintain project quality and development efficiency.

## Organizations, Committees & Volunteer

**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 Departement Himatif FMIPA Unpad 2024**                *February 2024 - December 2024*

Himatif FMIPA Unpad

- Developed and implemented the cadre training concept for new and second-year members of Himatif FMIPA Unpad.
- Conducted cadre training programs for 91 members, onboarding and developing their skills.

**Project Supervisor of Character Building Season 2024**                    *June 2024 - October 2024*

Himatif FMIPA Unpad

- Supervised a team of 87 committee members during CBS 2024 (Character Building Season), ensuring smooth execution of orientation and basic training program.
- Oversaw quality control of sessions and activities, maintaining high standards in workshops and team-building exercises.

**Project Supervisor of Mentari Permata : Social Action Project**          *September 2023 - November 2023*

Padjadjaran University

- Supervised a team of participants and volunteers for Mentari Permata, a social action project aimed at preparing high school seniors for university life.
- Managed program execution for 40 participants, including educational sessions and interactive activities on work management, stress tolerance, and university preparation.

## CERTIFICATIONS & ACHIEVEMENT

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

## LANGUAGES

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