ALIFA HANANIA ARDHA

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EDUCATION

University of Indonesia, Faculty of Computer Science   **Depok**
Bachelor in Computer Science, GPA: 3.72 / 4.00   **July 2022 - Present**
Relevant Coursework: Software Project, Intro to Software Security, AI and Basic Data Science, Data Mining

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript, CSS, HTML
Frameworks & Libraries: Django, Spring Boot, Next.Js, Flutter
Database: PostgreSQL
Tools & Platforms: Git/GitHub, Postman, SonarCloud, Sentry, Figma, Draw.io, Microsoft Office

PROJECT EXPERIENCE

SOFTWARE DEVELOPMENT PROJECTS

PantauTular, *Full-stack Developer*   **March 2025 - June 2025**

- Developed infectious disease surveillance web application for BRIN to monitor disease outbreaks across Indonesia
- Built full-stack solution using Next.js frontend and Django REST API backend with PostgreSQL database
- Collaborated in 7-member agile team across 4 sprints, implementing SOLID principles, design patterns, and automated testing pipeline
- Delivered complete system with technical documentation for seamless client handover
- **Technologies**: Next.js, Django, PostgreSQL, GitHub, Sonarcloud, Sentry, Postman, Draw.io, Notion

BrewForce Attack, *Full-stack Developer*   **March 2025 - May 2025**

- Built security-focused microservices web application following OWASP Top 10 guidelines in 5-member team
- Developed Next.js frontend and Spring Boot backend with separated authentication service architecture
- Deployed containerized application using Docker and Kubernetes on university server infrastructure
- **Technologies**: Next.js, Spring Boot, Docker, Kubernetes, GitLab, Postman, Draw.io, Burp Suite

IAST Connect, *Full-stack Developer*   **June 2024 - July 2024**

- Delivered alumni networking platform for Ikatan Alumni Sang Timur client in 4-member agile team
- Built responsive web application using Next.js frontend and Django backend with intuitive UI/UX design
- Created user interface prototypes using Figma for stakeholder alignment and seamless user experience
- **Technologies**: Next.js, Django, GitHub, Figma, PostgreSQL

Marmut Music, *Full-stack Developer*   **March 2024 - May 2024**

- Collaborated in 4-member development team to deliver a simple full-stack music streaming application
- Designed comprehensive database architecture using EER modeling and implemented relational database through ER-to-Relational mapping
- Built Django backend with raw SQL queries and responsive frontend interface using HTML/CSS
- **Technologies**: Django, HTML, CSS, Draw.io, Supabase

UlasBuku, *Full-stack Developer*   **September 2023 - December 2023**

- Developed cross-platform book review application with web and mobile interfaces in 6-member team
- Built Django REST API backend with unified authentication serving both web and Flutter applications
- Created responsive web frontend and mobile app with consistent cross-platform user experience
- **Technologies**: Django, HTML, CSS, Flutter, GitHub

DATA SCIENCE PROJECTS

Lodging Reservation Analytics, *Data Scientist*   **March 2024 - June 2024**

- Collaborated in 3-member data science team to deliver end-to-end analytics solution, providing actionable business insights that improved hospitality industry decision-making
- Developed ML classification model (F1: 0.84) for booking cancellation prediction and regression model for pricing optimization using 8,954+ reservation records
- Implemented customer segmentation through clustering analysis to identify distinct booking patterns and enable targeted business strategies
- **Technologies**: Python, pandas, numpy, matplotlib, seaborn, sklearn, Google Colab

ADDITIONAL EXPERIENCE

TEACHING EXPERIENCE

Faculty of Computer Science, University of Indonesia, *Database Teaching Assistant*   **January 2025 - June 2025**
- Collaborated with Database lecturers and teaching assistant team to develop comprehensive assessment materials including quizzes, tutorials, and group projects aligned with academic standards
- Evaluated and provided constructive feedback on assignments for 100+ students, contributing to improved learning outcomes
- Delivered academic support through responsive consultation on coursework and lecture materials

Faculty of Computer Science, University of Indonesia, *Discrete Mathematics 1 Teaching*   **August 2024 - January 2025**
Assistant
- Created comprehensive assessment materials and grading rubrics in collaboration with faculty team
- Evaluated 50+ student assignments with constructive feedback to enhance mathematical reasoning skills
- Facilitated exam preparation through structured review sessions covering quizzes, midterms, and finals

Faculty of Computer Science, University of Indonesia, *Discrete Mathematics 2 Teaching*   **January 2024 - August 2024**
Assistant
- Developed individual assignments and answer keys in collaboration with teaching team to maintain academic rigor
- Assessed 50+ student submissions with detailed feedback, supporting academic progress and comprehension
- Conducted exam preparation sessions (midterm and final) through targeted review sessions

ORGANIZATIONAL EXPERIENCE

Forum Ukhuwah dan Kajian Islam Fasilkom UI, *Internal Control Staff*   **January 2025 - Present**
- Coordinated bidding process (fit and proper test) for Executive Board positions and SIWAK NG committee, ensuring transparent candidate selection
- Managed stakeholder communication between bidders and panelists while serving as MC and timekeeper during evaluation sessions
- Ensured objective and orderly selection process through systematic procedural oversight

Forum Ukhuwah dan Kajian Islam Fasilkom UI, *Human Resource Development Staff*   **August 2023 - January 2024**
- Executed human resource development programs to enhance organizational capacity and member engagement
- Led "Remember Your Friend" (RYF) initiative, improving cross-functional collaboration and member networking
- Served as liaison between HR Development and IT Force division, streamlining interdepartmental communication and project coordination