

# Avan Fabian Daniswara

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## Education

<b>Student of Informatics Engineering</b>	2022-present
Universitas Negeri Malang	GPA: 3.70

## Projects

- Dashboard Ekraf: Southeast Sulawesi Creative Economy Platform** February 2025 – June 2025  
Backend Engineer (Intern) at the Profile Image Studio.
  - Architected and developed the backend system for a digital platform to support creative economy actors, focusing on a custom questionnaire and data recapitulation module.
  - Implemented a secure RESTful API using AdonisJS and designed a normalized PostgreSQL schema, which automated data processing and improved data accuracy for stakeholders.
  - Technology Used: Node.js, AdonisJS, PostgreSQL, RESTful API, Postman, Git, Agile Methodology.
- Sincosmile: E-Learning & Assessment Platform** April 2025 – May 2025  
Fullstack Developer for academic research project at UM
  - Architected and developed the platform's core features, including the automated scoring engine and a Role-Based Access Control system to manage user permissions.
  - Leveraged Supabase as a Backend-as-a-Service to accelerate development, and optimized PostgreSQL queries, resulting in a significant improvement in data retrieval efficiency for the assessment feature.
  - Technology Used: Next.js, Supabase, PostgreSQL, Vercel, Git.
- Mother: Pregnancy Wellness and Fitness Monitoring Platform** March 2024 – October 2025  
Lead Fullstack Developer for a health-tech academic research application.
  - Architected and developed the entire end-to-end system, featuring a cross-platform mobile application in Flutter and a robust RESTful API in Laravel.
  - Engineered a custom business logic engine on the backend for dynamic calorie calculation and exercise tracking, tailored to individual user health conditions to ensure data accuracy and safety.
  - Technology Used: Flutter, Dart, Laravel, PHP, MySQL, REST APIs, Git.
- Denkmeister: Indonesian-German Language Learning Platform** October 2024 – March 2025  
Lead Mobile Developer for a national academic competition entry.
  - Developed a cross-platform mobile application from concept to completion using Flutter, focusing on an offline-first architecture to ensure seamless user access without an internet connection.
  - Implemented an efficient local data structure using JSON Assets and managed the application's state with Provider resulting in a responsive and stable user experience.
  - Technology Used: Flutter, Dart, SQLite, Provider, Git.
- Neurehba: Integrated VR & IoT Stroke Rehabilitation Platform** February 2024 – October 2025  
Lead Developer & Systems Integrator for a Silver Medal-winning entry at the 37th National
  - Develop integrated system combining an immersive Virtual Reality (VR) simulation, an IoT-enabled exoskeleton, and a Kotlin-based mobile app for patient monitoring.
  - Engineered the communication protocol between Unity 3D, Arduino microcontrollers, and the mobile app to create a low-latency, real-time feedback loop, enabling accurate monitoring and gamified physical therapy.
  - Technology Used: Unity 3D, C#, Kotlin, Arduino (Nano, ESP32), Blender, Git.
- Credit Risk Prediction & Scoring System** February 2024 – March 2024  
Data Scientist in a project-based internship program with industry partner ID/X Partners
  - Developed an end-to-end machine learning model to predict credit risk, achieving 85% accuracy in identifying high-risk loan applications.
  - Engineered predictive features from historical lending data and utilized XGBoost and Scikit-learn to build and evaluate the classification model, forming the core of the scoring system.
  - Technology Used: Python, Pandas, Scikit-learn, XGBoost, Matplotlib, Seaborn, Git.
- F&B MSME Information System** January 2024 – April 2024  
Lead Developer of information system project for the F&B MSME RumahSaladFaqiha
  - Developed a web application to digitize core business operations, including order management, customer data and inventory tracking.

- Engineered a centralized system using Laravel that automated product ordering service, resulting in productivity boost for the business owner.
- Technology Used: Laravel, MySQL, Tailwind, Git.

#### •F&B MSME Invoice Management System

January 2024 – April 2024

Developer Team for a Gold Medal-winning entry at the UM Tech & Trade Expo 2024

- Developed a web application to digitize core business operations, including order management, customer data and inventory tracking.
- Engineered a centralized system using Laravel that automated product ordering service, resulting in productivity boost for the business owner.
- Technology Used: Laravel, MySQL, Tailwind, Git.

## Experience

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#### •Backend Developer Intern at Profile Image Studio

February 2025 – June 2025

Digital company, providing ERP system and custom software development for business

hybrid

- Implemented customized business logic using adonisJS according to the specific needs of the creative economy actors of Southeast Sulawesi Province.
- Built an automated recapitulation system for questionnaire assessment data, significantly reducing manual labor and improving data accuracy.
- Designed a normalized PostgreSQL database schema and wrote structured API documentation using Postman to accelerate team integration and collaboration.
- Collaborated with the DevOps team to diagnose and resolve deployment issues in the production environment.
- Implemented RBAC authorization system to ensure data access rights integrity between Admin and User roles.

#### •Identity and Access Management Intern at Social Economic Accelerator Lab

April 2025 – June 2025

Digital company, providing ERP system and custom software development for business

offline

- Windows Server setup as an enterprise access control system that supports efficiency and structured control.
- LDAP & Active Directory (AD) configuration for centralized user authentication and management.
- Implementation of IAM (Identity and Access Management) and CIAM (Customer IAM) to securely manage internal and external access rights.
- Configured Okta as the central Identity Provider (IdP) to manage Single Sign-On (SSO) for key enterprise applications, including Salesforce.
- Applied knowledge of data security principles to protect from cyber-attacks to maintain business operational continuity through system, identity, and network infrastructure protection.

#### •Mentor at Student Creativity Program UM

October 2024 – Present

Student innovation and research program Funded by the Indonesian Ministry of Education

hybrid

- Mentor student teams in developing innovation-based projects in the Karsa Cipta category of the Student Creativity Program.
- Oversee the process of proposal writing, research implementation, and presentation preparation at the national level.
- Provide strategic input to improve the feasibility and impact of innovative project ideas.

#### •ML/AI Core Team at Tech Community GDGOC UM

October 2024 – July 2025

University based Technology Community Program supported by Google.

hybrid

- Led the development of impactful final projects, focusing on innovative solutions through collaboration across technical divisions.
- Designed and delivered ML/AI learning materials in Study Jam sessions to increase student participation and understanding.

#### •Data Scientist at ID/X Partner

February 2024 – March 2024

Project Based Internship program by Rakamin Academy with industry partner ID/X Partners.

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- Developed an end-to-end machine learning model to predict loan default risk, achieving 85% accuracy on the test dataset.
- Performed feature engineering on historical lending data and implemented an XGBoost model using Scikit-learn to build the core of the credit scoring system.

#### •ML/AI Core Team at Tech Community GDSC UM

October 2023 – October 2024

University based Community Program supported by Google.

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- Designed and delivered comprehensive learning materials on ML/AI in Study Jam sessions.
- Guided students in the practical application of ML/AI concepts and techniques.

## Achievements

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#### •UM Gold Medal Tech & Trade Expo 2024

January 2024 – April 2024

Architected a web-based invoicing platform to digitize MSME financial processes, integrating Gemini API for a

smart suggestion feature to improve business product development.

·**Silver Medal, 37th National Scientific Week (PIMNAS)**

October 2024 – November 2024

Architected an innovative rehabilitation system and successfully presented its technical framework and user benefits to a national panel of judges.

·**Funding Recipient, National Student Creativity Program (PKM-KC)**

February 2024 – September 2024

Secured national R&D funding by designing and proposing an innovative system for post-stroke rehabilitation using Virtual Reality (VR) and IoT.

·**Certificate of English Proficiency (CEFR B2 Equivalent)**

November 2022 – December 2022

Issued by the State University of Malang with a PBT-equivalent score of 487.