

MUHAMMAD FACHRIZAL GIFFARI

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Yogyakarta

Highly passionate undergraduate IT student with a proven track record in AI, Back- End Development, and IoT. Seeking opportunities to gain hands- on experience and deepen my expertise in Android Development, Cloud Computing, Web Development, and Web3.

Education

Universitas Gadjah Mada  - Yogyakarta, Indonesia

Aug 2022 - Aug 2026 (Expected)

Undergraduate Information Technology, 3.42/4.00

- Appointed as Tutor of Random Variable Probability Course, helping and tutoring 20+ students.
- Appointed as Tutor of Linear Algebra Course, helping and tutoring 20+ students.
- Appointed as Tutor of Differential Equation Course, helping and tutoring 100+ students.
- Appointed as Laboratory Assistant of Basic Programming, helping and managing 50+ students.
- Appointed as Laboratory Assistant of Basic Science, helping and managing 50+ students.
- Appointed as Assistant Lecturer of Widyawan, S.T., M.Sc., Ph.D., helping him managing 150+ students.

Experience

Bank Indonesia - Jakarta Pusat

Jan 2025 - Feb 2025

Back-End Developer Intern

- Responsible for developing backend using Java 21 with Spring Boot framework.
- Develop Authentication Service using JWT and integrate with MySQL Database.
- Integrate Face Recognition Service written in Python using FastAPI with Weaviate Vector Database.
- Integrate Authentication Service with Face Recognition Service.

Bengkel Inovasi - Yogyakarta, Indonesia

Sep 2024 - Dec 2024

Freelance Back-End Developer

- Responsible for developing backend for suplai.id website using NextJS API Routes.
- Responsible for making Entity Relationship Diagram and hosting PostgreSQL database.
- Responsible for validating data using Zod.
- Responsible for handling authentication and authorization using NextAuth.
- Responsible for generating supply chain.

PPK Ormawa HMGP - Yogyakarta, Indonesia

Feb 2024 - Oct 2024

Back-End Developer

- Community service and empowerment program to help people at Warungboto District, Yogyakarta to digitalize trash bank.
- Responsible for developing backend for mobile application using Express with Javascript and MongoDB.
- Responsible for handling authentication and authorization using JWT.
- Responsible for hosting backend at serverless (Vercel).
- Responsible for integrating with Google Drive API.
- Make documentation for the API in Postman to help Mobile Developer.

ArachnoVa - Yogyakarta, Indonesia

May 2024 - Sep 2024

Freelance Back-End Developer

- An annual art and sport event held by Faculty of Engineering, Universitas Gadjah Mada.
- Responsible for developing backend for teknisiade.site website using Express with Javascript and MongoDB.

- Responsible for handling authentication and authorization using JWT.

ArachnoVa - Yogyakarta, Indonesia

Freelance Back-End Developer

Oct 2023 - Jan 2024

- A quinquennial event to celebrate Department of Electrical and Information Engineering Anniversary.
- Responsible for develop backend for one of the quinquennial event.
- Responsible for handling CRUD operations using Express with MongoDB and Javascript.
- Impacting more than 100+ individuals.

Organisational

Jelajah Kei Kecil 2025 - Maluku Tenggara, Indonesia

Community Service conducted at Iso, Wain Baru, and Disuk Village located at Kei Kecil Timur Subdistrict, Southeast Maluku Regency, Maluku Province.

Jun 2025 - Aug 2025

- Staff of Sponsorship Division, distributing 10+ proposals.
- Vice Project Officer of Iswadi Festival, gathering 50+ people.
- Back-End Developer of Apps-I Desa. impacting 10+ people.

Keluarga Mahasiswa Teknik Elektro dan Teknologi Informasi (KMTETI) - Yogyakarta, Indonesia

Staff of Electropreneur Division

KMTETI is an organisation for Department of Electrical Engineering and Information Engineering students to improving hardskill, softskill and funneling their interest.

Jan 2023 - Nov 2024

- Responsible for conducting seminar about Integrating Tech with Business, impacting 100+ people.

Skills

- **Soft Skills:** Teaching, Teamwork, Problem-Solving, Critical Thinking.
- **Programming Languages:** Arduino, C++, C#, Go, Java, Javascript, Kotlin, Python, Solidity, Typescript.
- **Technologies :** Aiven, AWS, CPanel, Docker, ExpressJS, FastAPI, Git, GraalVM, Keras, Linux, Maven, .NET, OpenJDK, Railway, Supabase, Vercel.
- **Frameworks:** Foundry, LangChain, NestJS, NextJS, Spring Boot, Tensorflow
- **Databases:** MySQL, PostgreSQL, MongoDB, ChromaDB, Weaviate
- **Course Project** 🏆 (2024): Convolutional Neural Network (CNN) Model for Forecasting Seasonal Data.
- **Course Project** 🏆 (2024): Modelling Spread of Fertilizer Particle.
- **Course Project** 🏆 (2024): Develop RAG for LLM using LangChain, Ollama, and Chroma Database.
- **Certificate** 🏆 (2024): Advanced Deep Learning with Keras.
- **Certificate** 🏆 (2024): MongoDB Node.js Developer Path
- **Certificate** 🏆 (2024): AWS Academy Cloud Foundations
- **Languages:** Indonesia (Native), English (Professional)