



MUHAMMAD NAJWAN FADILLAH

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Permata Metropolitan R.7/14 Tambun, Kec. Tambun Selatan, Kab. Bekasi, Jawa Barat

Software Engineering student skilled in web & mobile development (React.js, Next.js, Laravel, Flutter, Kotlin, SQL) and Computer Vision (Python, PyTorch, YOLO, TensorFlow). Experienced in delivering AI-integrated solutions with strong leadership and communication abilities honed through teaching assistant and organizational roles.

Education Level

Universitas Gadjah Mada - Sleman, Daerah Istimewa Yogyakarta

Jul 2023 - Jul 2027 (Expected)

Applied Bachelor Computer, 3.74/4.00

SMAN 1 Tambun Selatan - Bekasi, Jawa Barat

Jul 2020 - May 2023

Senior High School, Mathematics and Natural Sciences, 90.30/100.00

- Vice Chair of the IT Club Bonlap 2021/2022
- Bifest 2022 & Aikari Matsuri III Event Staff

Experiences

GDGOC UGM - Yogyakarta

Dec 2024 - Jun 2025

Member Hacker - Frontend Engineer

An official community under Google Developers for students who are interested in becoming developers and are interested in Google technology.

- Developing "Donora," a Flutter-based mobile application that made it into the Top 50 of the 2025 Google Solution Challenge APAC.
- Building a collaborative To-Do List application with Backend.
- Following an intensive training curriculum on Modern Frontend Development and Best Practices in software engineering.

GAMANTARAY UGM - Yogyakarta

Dec 2024 - Present

Programmer Staff

A UGM student research community focused on maritime technology innovation and ship prototypes.

- Developing a YOLOv8 object detection model for autonomous ship navigation systems
- Programming visual data-based servo control logic to automatically steer the ship according to input from the camera.
- Building a responsive organizational profile website to enhance digital presence and team research publications.

Sekolah Vokasi UGM - Yogyakarta

Feb 2025 - Jun 2025

Data Structures Lab Assistant

- Guiding 24 students in understanding the implementation and logic of complex algorithms, covering material on Basic Data Structures, Sorting, Stacks, Queues, Linked Lists, and Trees using Python.
- Conducting code reviews of weekly practical assignments and designing four sets of competitive programming questions using the HackerRank and LeetCode platforms to test students analytical skills.

Tech Enthusiast Day UGM - Yogyakarta

May 2024 - Nov 2024

Competition Coordinator

A national-scale technology competition event held annually, covering the fields of PLC, LF, ICT BD, CP, and E-sports.

- Managed 5 Sub-Coordinators to ensure technical and operational alignment across divisions.
- Scaled participation by 43% (140 to 200+ teams) through strategic competition management.
- Monitored daily progress to prevent delays and ensure a smooth competition from preparation to finals.

RDK UGM 1446 H - Yogyakarta

Nov 2024 - Mar 2025

IT Staff

The largest annual Ramadan festival at UGM with thousands of offline and online participants.

- Executed 10+ OBS Studio livestreams, optimizing bitrate for stable 1080p output despite network fluctuations.

Sekolah Vokasi UGM - Yogyakarta

Aug 2024 - Nov 2024

Information Technology and Computer Installation Lab Assistant

- Mentored 26 students in IT fundamentals: hardware assembly, virtualization, OS migration, and MS Office.
- Developed academic assessments through the correction of 6 practical reports, oral quizzes, Midterm Exams, and Final Exams.

Gemilang Desa - Yogyakarta

Sep 2024 - Nov 2024

IT and Publication Staff

Collaborated with communities to preserve local wisdom and drive development via festivals and strategic forums.

- Developed a tourism village profile website to support digital acceleration and promote local potential.
- Grew Instagram to 1,200+ followers and 3,000+ reach via strategic content planning.

SV UGM Career Days - Yogyakarta

Apr 2025 - May 2025

Liaison Officer

A national job fair attended by 40+ companies and 5,000+ visitors.

- Served as the PIC for OTO Group, facilitating effective communication between company partners and the committee.
- Communicated the OTO Group's profile and services to visitors in an informative and engaging manner.

KOMATIK UGM - Yogyakarta

Feb 2024 - Nov 2025

Cyber Security Staff

A community of UGM students focused on information and communication technology.

- Prepared for GEMASTIK by mastering Web Exploitation and Cryptography through intensive CTF simulations.

PIONIR Gadjah Mada - Yogyakarta

Mar 2024 - Aug 2024

Co-Facilitator

The official and largest orientation program at Universitas Gadjah Mada, mandatory for all new students.

- Fully responsible for facilitating the Hardjono 10 Group, consisting of 50 new students, from the beginning to the end of the activity.
- Created an inclusive discussion environment, successfully building rapport among participants, and increasing active participation.
- Provided objective assessments as a requirement for orientation completion.

Tech Enthusiast Day UGM - Yogyakarta

Aug 2023 - Nov 2023

Competition Staff

A national-scale technology competition event held annually, covering the fields of PLC, LF, CP, and SP.

- Increased the number of PLC participants by 200% (from 20 to 60 teams) by improving the socialization system.
- Formulated a Guidebook and facilitating Technical Meetings.
- Conducted supervision and ensuring that assessments are conducted objectively during the preliminary rounds through to the finals.

Projects

Automated Cutting Description | PT Parama Data Unit - Yogyakarta

Aug 2025 - Present

Frontend & AI Engineer

A B2B project for clients in the oil and gas industry focused on rock analysis automation. The system was built using Python, YOLOv11, FastAPI, Next.js, Express.js, Prisma, Supabase, and Tailwind CSS.

- Developing an end-to-end Computer Vision system to automatically detect and segment sandstone and siltstone rocks.
- Designing a full-stack architecture that connects AI services with backend and interactive dashboards.
- Implementing Chart.js to visualize geological data from detection results so that it can be easily analyzed by client users.

GAMANTARAY Web Profile - Yogyakarta

Aug 2025 - Nov 2025

Web Developer

Gamantaray Official Web Profile. Built using Next.js 15, Tailwind CSS v4, Framer Motion, and Sanity CMS.

- Building a highly responsive and aesthetically pleasing web interface.
- Integrated Headless CMS so that non-technical teams can easily update article content and research.

Avesta - Yogyakarta

Aug 2024 - May 2025

Project Manager & System Analyst

An e-commerce website that connects chicken sellers with consumers in Kapanewon Mlati.

- Led the Software Development Life Cycle for the developer team, from initiation to product delivery.
- Designed comprehensive technical documents including Software Requirement Specification, Use Case, Activity Diagram, and user flow to serve as a reference for the design and development teams.
- Monitored weekly progress, managed the work timeline, and performed Quality Assurance before reporting to the Project Owner.

AI Political Hoax Detection - Yogyakarta

Sep 2025 - Present

AI Engineer

Political Hoax Detection System developed using Python, Scikit-learn, IndoBERT, and Flask.

- Developed hoax detection models using IndoBERT and Scikit-Learn classifiers on Indonesian political news.
- Packaged the AI model into a web service using Flask so that it can be accessed by end users through a simple web interface.

Pharmaflow - Yogyakarta

Nov 2025

Programmer

Smart Drug Inventory System developed using ESP32 and Kotlin.

- Developed a remote-control application that communicates with microcontrollers to activate specific medicine storage indicators.
- Implemented LED and buzzer alerts on storage boxes to facilitate instant visual/audio localization, streamlining the retrieval process.

Movie Collection App - Yogyakarta

Nov 2024 - Dec 2024

Android Developer

A mobile application for movie collections, built using Kotlin in Android Studio.

- Developed a mobile application with Role-Based Access Control (Admin vs User) features and CRUD operations for movie data.

Skills, Achievements & Other Experience

- **Achievements** ⓘ (2025): TOP 50 APAC Google Solution Challenge 2025
- **Achievements** ⓘ (2025): TOP 5 Sampan Maritime Competition ITS 2025
- **Hard Skills** ⓘ: Python, Java, Kotlin, Dart, PHP, JavaScript, TypeScript, SQL, Flutter, React.js, Next.js, Laravel, Tailwind CSS
- **AI & Data** ⓘ: Tableau, Computer Vision, Machine Learning, Deep Learning (Huawei Certified ICT Associate - Artificial Intelligence)
- **Tools & Platforms**: Git, GitHub, GitLab, Vercel, Netlify, Firebase, MySQL, PostgreSQL, Docker, Biznet Gio Cloud, Arduino, ESP32
- **Certifications** ⓘ: ORACLE Database Programming with SQL
- **Soft Skills** ⓘ: Communication, Public Speaking, Leadership
- **Competition Participation** (2025): Passed UGM Internal Selection for PKM-K 2025
- **Competition Participation** (2024): Cyber Security Qualifying Round for GEMASTIK XVII 2024