



# MUHAMMAD NAJWAN FADLILLAH

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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

<b>Universitas Gadjah Mada - Sleman, Daerah Istimewa Yogyakarta</b> <i>Applied Bachelor Computer, 3.74/4.00</i>	Jul 2023 - Jul 2027 (Expected)
<b>SMAN 1 Tambun Selatan - Bekasi, Jawa Barat</b> <i>Senior High School, Mathematics and Natural Sciences, 90.30/100.00</i>	Jul 2020 - May 2023
<ul style="list-style-type: none"><li>Vice Chair of the IT Club Bonlap 2021/2022</li><li>Bifest 2022 &amp; Aikari Matsuri III Event Staff</li></ul>	

## Experiences

<b>GDGOC UGM - Yogyakarta</b> <i>Member Hacker - Frontend Engineer</i> An official community under Google Developers for students who are interested in becoming developers and are interested in Google technology. <ul style="list-style-type: none"><li>Developing "Donora," a Flutter-based mobile application that made it into the Top 50 of the 2025 Google Solution Challenge APAC.</li><li>Building a collaborative To-Do List application with Backend.</li><li>Following an intensive training curriculum on Modern Frontend Development and Best Practices in software engineering.</li></ul>	Dec 2024 - Jun 2025
<b>GAMANTARAY UGM - Yogyakarta</b> <i>Programmer Staff</i> A UGM student research community focused on maritime technology innovation and ship prototypes. <ul style="list-style-type: none"><li>Developing a YOLOv8 object detection model for autonomous ship navigation systems</li><li>Programming visual data-based servo control logic to automatically steer the ship according to input from the camera.</li><li>Building a responsive organizational profile website to enhance digital presence and team research publications.</li></ul>	Dec 2024 - Present
<b>Sekolah Vokasi UGM - Yogyakarta</b> <i>Data Structures Lab Assistant</i> <ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>	Feb 2025 - Jun 2025
<b>Tech Enthusiast Day UGM - Yogyakarta</b> <i>Competition Coordinator</i> A national-scale technology competition event held annually, covering the fields of PLC, LF, ICT BD, CP, and E-sports. <ul style="list-style-type: none"><li>Managed 5 Sub-Coordinators to ensure technical and operational alignment across divisions.</li><li>Scaled participation by 43% (140 to 200+ teams) through strategic competition management.</li><li>Monitored daily progress to prevent delays and ensure a smooth competition from preparation to finals.</li></ul>	May 2024 - Nov 2024
<b>RDK UGM 1446 H - Yogyakarta</b> <i>IT Staff</i> The largest annual Ramadan festival at UGM with thousands of offline and online participants. <ul style="list-style-type: none"><li>Executed 10+ OBS Studio livestreams, optimizing bitrate for stable 1080p output despite network fluctuations.</li></ul>	Nov 2024 - Mar 2025
<b>Sekolah Vokasi UGM - Yogyakarta</b> <i>Information Technology and Computer Installation Lab Assistant</i> <ul style="list-style-type: none"><li>Mentored 26 students in IT fundamentals: hardware assembly, virtualization, OS migration, and MS Office.</li><li>Developed academic assessments through the correction of 6 practical reports, oral quizzes, Midterm Exams, and Final Exams.</li></ul>	Aug 2024 - Nov 2024
<b>Gemilang Desa - Yogyakarta</b>	Sep 2024 - Nov 2024

<b>IT and Publication Staff</b>	
Collaborated with communities to preserve local wisdom and drive development via festivals and strategic forums.	
<ul style="list-style-type: none"> <li>Developed a tourism village profile website to support digital acceleration and promote local potential.</li> <li>Grew Instagram to 1,200+ followers and 3,000+ reach via strategic content planning.</li> </ul>	
<b>SV UGM Career Days - Yogyakarta</b>	Apr 2025 - May 2025
<i>Liaison Officer</i>	
A national job fair attended by 40+ companies and 5,000+ visitors.	
<ul style="list-style-type: none"> <li>Served as the PIC for OTO Group, facilitating effective communication between company partners and the committee.</li> <li>Communicated the OTO Group's profile and services to visitors in an informative and engaging manner.</li> </ul>	
<b>KOMATIK UGM - Yogyakarta</b>	Feb 2024 - Nov 2025
<i>Cyber Security Staff</i>	
A community of UGM students focused on information and communication technology.	
<ul style="list-style-type: none"> <li>Prepared for GEMASTIK by mastering Web Exploitation and Cryptography through intensive CTF simulations.</li> </ul>	
<b>PIONIR Gadjah Mada - Yogyakarta</b>	Mar 2024 - Aug 2024
<i>Co-Facilitator</i>	
The official and largest orientation program at Universitas Gadjah Mada, mandatory for all new students.	
<ul style="list-style-type: none"> <li>Fully responsible for facilitating the Hardjono 10 Group, consisting of 50 new students, from the beginning to the end of the activity.</li> <li>Created an inclusive discussion environment, successfully building rapport among participants, and increasing active participation.</li> <li>Provided objective assessments as a requirement for orientation completion.</li> </ul>	
<b>Tech Enthusiast Day UGM - Yogyakarta</b>	Aug 2023 - Nov 2023
<i>Competition Staff</i>	
A national-scale technology competition event held annually, covering the fields of PLC, LF, CP, and SP.	
<ul style="list-style-type: none"> <li>Increased the number of PLC participants by 200% (from 20 to 60 teams) by improving the socialization system.</li> <li>Formulated a Guidebook and facilitating Technical Meetings.</li> <li>Conducted supervision and ensuring that assessments are conducted objectively during the preliminary rounds through to the finals.</li> </ul>	

## Projects

<b>Automated Cutting Description   PT Parama Data Unit - Yogyakarta</b>	Aug 2025 - Present
<i>Frontend &amp; AI Engineer</i>	
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.	
<ul style="list-style-type: none"> <li>Developing an end-to-end Computer Vision system to automatically detect and segment sandstone and siltstone rocks.</li> <li>Designing a full-stack architecture that connects AI services with backend and interactive dashboards.</li> <li>Implementing Chart.js to visualize geological data from detection results so that it can be easily analyzed by client users.</li> </ul>	
<b>GAMANTARAY Web Profile - Yogyakarta</b>	Aug 2025 - Nov 2025
<i>Web Developer</i>	
Gamantaray Official Web Profile. Built using Next.js 15, Tailwind CSS v4, Framer Motion, and Sanity CMS.	
<ul style="list-style-type: none"> <li>Building a highly responsive and aesthetically pleasing web interface.</li> <li>Integrated Headless CMS so that non-technical teams can easily update article content and research.</li> </ul>	
<b>Avesta - Yogyakarta</b>	Aug 2024 - May 2025
<i>Project Manager &amp; System Analyst</i>	
An e-commerce website that connects chicken sellers with consumers in Kapanewon Mlati.	
<ul style="list-style-type: none"> <li>Led the Software Development Life Cycle for the developer team, from initiation to product delivery.</li> <li>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.</li> <li>Monitored weekly progress, managed the work timeline, and performed Quality Assurance before reporting to the Project Owner.</li> </ul>	
<b>AI Political Hoax Detection - Yogyakarta</b>	Sep 2025 - Present
<i>AI Engineer</i>	
Political Hoax Detection System developed using Python, Scikit-learn, IndoBERT, and Flask.	
<ul style="list-style-type: none"> <li>Developed hoax detection models using IndoBERT and Scikit-Learn classifiers on Indonesian political news.</li> <li>Packaged the AI model into a web service using Flask so that it can be accessed by end users through a simple web interface.</li> </ul>	
<b>Pharmaflow - Yogyakarta</b>	Nov 2025
<i>Programmer</i>	

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**

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- **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