AZRIL FAHMIARDI

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Software Engineering Technology student at Universitas Gadjah Mada, focusing on Data Science, AI/ML, and Software Engineering. Experienced in data analysis, problem solving, and software development. Motivated to leverage technology to create innovative and impactful solutions.

Education Level

Universitas Gadjah Mada - Bulaksumur, Caturtunggal, Depok, Sleman Regency, Special Region of Yogyakarta 55281
D4 Teknologi Rekayasa Perangkat Lunak, 3.94/3.98

Jul 2024

SMA Negeri 1 Batam - Jl. R. Soeprapto No.1, Sungai Harapan, Kec. Sekupang, Kota Batam, Kepulauan Riau 29444
Senior High School, MIPA

Jul 2020 - Apr 2023

Work Experiences

Semesta Data Digital - Yogyakarta

Sep 2025 - Present

AI/ML Intern

Provide innovative solutions in Big Data, AI, and Digital Transformation

- Developed and deployed a Named Entity Recognition (NER) system using scraped news articles, fine-tuned XLM-RoBERTa with manually labeled data to extract PER, LOC, and ORG entities for data enrichment in production.
- Built a production-ready AI news livestream scraping pipeline for 24/7 YouTube news channels (e.g., Kompas TV), generating structured JSON outputs (title, summary, actors, topics) using YOLO, Whisper, and Qwen.
- Developed a voice-enabled AI assistant (RAG-based) for querying the latest police-related news, delivering recommendations and actionable insights, and supporting automated message delivery to designated WhatsApp numbers for POLRI tender use.
- Integrated and optimized an AI-powered Text-to-SQL model to translate natural language queries into accurate SQL statements for web-based applications.
- Conducted NER data labeling and validation using Label Studio to improve model performance and reliability.

PT Kahasolusi Indonesia - Yogyakarta

Aug 2025 - Dec 2025

Backend Developer - Kontrak

IT Services and IT Consulting

- Developed and maintained backend services to support company web applications and internal systems.
- Designed and implemented a custom Content Management System (CMS) to manage company content efficiently.
- Handled API development, data management, and system integration to ensure reliable and scalable backend operations.

Freelance - Yogyakarta

Jul 2025 - Present

Fullstack Developer

- Contributed to the development of the LSP UGM website, working on multiple features and pages in collaboration with colleagues. The project was assigned by a lecturer.

Freelance - Yogyakarta

- Dec 2025

Fullstack Developer

- Working on a health web project (SIKOLOV) from a DTEDI lecturer, which will be used by DTEDI students

Freelance - Yogyakarta

- Feb 2025

Fullstack Developer

- Take part in working on the DTEDI website called SILABU, where I worked on several features and pages with other colleagues. I got this project from a lecturer

Organisational Experience

Data Mining & Artificial Intelligence - KOMATIK - Yogyakarta

Dec 2025 - Present

Lead

DMAI is a student community at Universitas Gadjah Mada (UGM) consisting of students with strong enthusiasm and interest in the fields of Data Science and Artificial Intelligence. The primary objective of this community is to prepare its members for participation in the national annual competition, GEMASTIK.

- Led teaching and mentoring activities in Data Science and Artificial Intelligence, focusing on technical preparation and project development for the national GEMASTIK competition.

Google Developer Group on Campus - **Yogyakarta**   Sep 2025 - Present
AI/ML Academic
GDGoC UGM is a technology community at Universitas Gadjah Mada dedicated to enhancing students' skills in technology and innovation. It provides a platform for students to learn, collaborate, and develop tech-based projects through workshops, seminars, and hands-on sessions. Supported by Google Developer Groups (GDG), GDGoC UGM aims to inspire and empower students to reach their full potential in the tech industry.

- Focused on teaching and mentoring students in Artificial Intelligence and Machine Learning through academic sessions, workshops, and hands-on activities.

Gadjah Mada Robotic Team - **Yogyakarta**   Oct 2024 - Present
Vision Programmer
Established in 2017, Fukuro is a UGM team focused on researching and developing autonomous soccer robots for national and international competitions. The name "Fukuro," meaning owl in Japanese, symbolizes the team's dedication and the robot's ability to perceive in all directions.

- Responsible for developing and optimizing the robot's vision system, focusing on object detection, image processing, and real-time tracking to enhance autonomous decision-making during competitions.

Batam Campus Expo 2025 - **Yogyakarta**   Oct 2024 - Jan 2025
Ketua sub Divisi IPTEK
Batam Campus Expo is an initiative carried out by students from Batam City who are currently studying at well-known campuses in throughout Indonesia. Batam Campus Expo aims to introduce Higher Education through providing stands from each campus and carrying out other activities such as competitions and talk shows.

- Leading the IPTEK division and producing a website that was accessed by a total of 1031 registrants

Google Developer Group on Campus - **Yogyakarta**   Nov 2024 - Present
Hacker
GDGoC UGM is a technology community at Universitas Gadjah Mada dedicated to enhancing students' skills in technology and innovation. It provides a platform for students to learn, collaborate, and develop tech-based projects through workshops, seminars, and hands-on sessions. Supported by Google Developer Groups (GDG), GDGoC UGM aims to inspire and empower students to reach their full potential in the tech industry.

- I, along with my team at GDGoC, am preparing for a competition called the Google Solution Challenge, where I serve as a backend developer.

Pionir Gadjah Mada - **Yogyakarta**   Mar 2025 - Aug 2025
Web Developer
PIONIR Gadjah Mada is a leadership and orientation program aimed at shaping young leaders with UGM values, encouraging students to explore their potential and contribute meaningfully at local and global levels.

- Contributed as a Frontend Developer for the PIONIR Gadjah Mada 2025 website, while also managing Strapi CMS and Firebase integration.

Keluarga Mahasiswa Teknik Elektro dan Informatika (KMTEDI) SV UGM - **Yogyakarta**   - Present
Staff IPTEK
KMTEDI is a student organization that oversees Electrical and Informatics Engineering students at UGM.

- Contributed as a Web Developer for the Keluarga Mahasiswa Teknik Elektro dan Informatika (KMTEDI) SV UGM website, responsible for designing and developing the official website to support organizational information and activities.

Software Research and Development - KOMATIK - **Yogyakarta**   Nov 2024 - Present
Staff
Software Research and Development (SRD) is an innovation lab focused on software development, research, and training in the field of software engineering.
As a division of KOMATIK, SRD also prepares UGM students for the GEMASTIK competition in the Software Development category.

- I as a staff prepare learning materials related to software and teach it to members. At the same time I also prepare for GELATIK

Assets - **Yogyakarta**   Mar 2025 - Present
Staff IPTEK
ASSETS UGM (Association of Software Engineering Technology Students) is a student association of the Software Engineering Technology program at Universitas Gadjah Mada, focusing on academic, professional, and organizational development

- I developed and managed the official ASSETS UGM website while also serving as an instructor.

Tech Enthusiast Day - **Yogyakarta**   Sep 2025 - Nov 2025

Backend Developer

Tech Enthusiast Day (TED) is a national technology competition event organized by KMTEDI, School of Vocational Studies, Universitas Gadjah Mada (SV UGM), focusing on various fields of technology.

- Contributed as a Backend Developer, responsible for server-side development, API implementation, and data management

Skills, Achievements & Other Experience

- **Achievements** ⊘ (2024): Certification of Competence - System Analyst from Badan Nasional Sertifikasi Profesi (BNSP)
- **Achievements** ⊘ (2025): 2nd Runner Up Datathon 2025 - Fasilkom Universitas Indonesia
- **Achievements** ⊘ (2025): 3rd Place Data Visualization Pingfest - IT Venture UNS
- **Achievements** ⊘ (2025): Top 5 Finalist BizzIT - Compfest Universitas Indonesia
- **Achievements** ⊘ (2026): Top 8 Datavers Anava - Himpunan Mahasiswa Statistika FMIPA UGM
- **Achievements** ⊘ (2025): Top 50 Teams Google Solution Challage 2025 (International)
- **Achievements** ⊘ (2025): Finalist Regression Rumble Neurontara Data Clash 2025
- **Achievements** ⊘ (2025): 1st Winner of Samsung Galaxy Campus Hackathon Competition
- **Achievements** ⊘ (2025): Finalist Gemastik 2025 PPL - Kemendiktisaintek
- **Achievements** ⊘ (2025): Best Backend Hacker in GDGoC UGM 2024/2025
- **Projects** ⊘ (2025): Named Entity Recognition (NER) System, Developed as part of my internship, this NER model was built using scraped news articles and fine-tuned XLM-RoBERTa with manually labeled data. The model is deployed on a production server to generate enriched data by accurately identifying PER, LOC, and ORG entities.
- **Projects** ⊘ (2026): AI News Livestream Scraper, Developed as part of my internship, this production-ready AI pipeline scrapes 24/7 YouTube news livestreams (e.g., Kompas TV) and generates structured JSON outputs (title, summary, actors, topics). Deployed on the company's production server, the system uses YOLO, Whisper, and Qwen to process and enrich raw livestream data.
- **Projects** ⊘ (2024): Autonomous Soccer Robot Vision, Computer Vision system for real-time ball detection and teammate recognition in a wheeled soccer robot.
- **Projects** ⊘ (2025): Text-to-SQL AI Model, Integrated and optimized an AI model to convert natural language into accurate SQL queries for web applications.
- **Projects** ⊘ (2025): Influensure, Developed an AI powered influencer recommendation system and analytics dashboard. The system scrapes Instagram influencer data and matches influencers to product campaigns, providing detailed metrics and clear justification for each recommendation.
- **Projects** ⊘ (2025): AI Promotion Optimization Model, Designed a data driven model to determine the optimal timing and type of discounts for products and to estimate expected profit impact, helping a multi-branch retail UMKM move from intuition based promotions to data driven decision making.
- **Projects** (2025): SILABU, Website for borrowing labs and equipment provided by the department
- **Projects** ⊘ (2025): AI DITA Assistant, Developed as part of my internship, this AI assistant is built using a Retrieval-Augmented Generation (RAG) approach and supports voice-based interaction for querying the latest police-related news. The system is designed for POLRI tender use, providing recommendations and actionable insights, with the ability to automatically send results to designated WhatsApp numbers.
- **Projects** ⊘ (2025): Company Profile & CMS of PT Kahasolusi Indonesia, Developed the company profile website along with a custom Content Management System (CMS) for a technology-focused software house.
- **Projects** ⊘ (2025): Food Wise Mobile App, designed to help households prevent food waste through AI-powered portion suggestions and gamified behavior change.
- **Projects** (2025): LSP UGM, a platform that provides high-quality professional certifications for active students
- **Projects** ⊘ (2025): Website Batam Campus Expo 2025, Batam Campus Expo is an initiative carried out by students from Batam City who are currently studying at well-known campuses in throughout Indonesia. Batam Campus Expo aims to introduce Higher Education through providing stands from each campus and carrying out other activities such as competitions and talk shows
- **Projects** (2025): Pionir Gadjah Mada 2025 Website, website serves as an interactive portal that provides essential orientation details for new UGM students.
- **Projects** ⊘ (2025): WEB TED, Developed the official event website for Tech Enthusiast Day (TED), a national technology competition organized by KMTEDI SV UGM, supporting event information, competition details, and participant access.
- **Projects** ⊘ (2025): Sikolov. This application is used to help DTEDI students who need counseling services by using Google Calendar as a schedule manager.