Johannes De Deo Dimas Aryobimo

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Pondok Gede, Bekasi, Jawa Barat

Summary

Information Engineering student at Universitas Gadjah Mada interested in software engineering (Next.js, React, Express.js, FastAPI, Kotlin) and data engineering (Python, Kafka, Airflow, dbt, PostgreSQL). Active in student tech communities as an organizer and mentor.

Education

Universitas Gadjah Mada Yogyakarta, Indonesia
Undergraduate in Information Engineering – GPA: 3.38/4.00 *2024 – 2028*

Experience

KMTETI – Workshop Division 2026 – Present
Keluarga Mahasiswa Teknik Elektro dan Teknologi Informasi
- Ran a 6-session Data Science training for 60+ participants, serving as liaison between participants and mentors.
- Led a 30+ member committee as Head of Organizing Committee for Bootcamp TETI 2026 (100+ participants), owning mentor acquisition, timeline planning, and on-site supervision.

Night Login Data Science Community 2026 – Present
Deputy Head
- Organized hybrid (online and offline) Data Science training sessions and workshops for 50+ community members.
- Mentored members in technical competition preparation and strategy for national Data Science contests.

Projects

CariKos – Boarding House Finder | *Node.js, Express, MongoDB, Socket.IO* | github Sep 2026 – Present
- Coordinated a 4-person web development course team: drove technical decisions, ran meetings, split tasks, and built the admin module (kos verification, role-based access control, statistics dashboard).
- Implemented room booking with automatic stock updates, reviews, Haversine-based nearby search, Cloudinary image upload, and Socket.IO chat and notifications; wrote a Postman suite with 33 automated assertions.

Turbofan Predictive Maintenance | *Kafka, dbt, XGBoost, FastAPI* | github Oct 2026
- Built a streaming RUL-prediction prototype on NASA C-MAPSS FD001 (simulated data): Kafka, PostgreSQL, and dbt features feeding tuned XGBoost (RMSE 13.88, NASA score 342.7 on the official test set).
- Served predictions via FastAPI REST and WebSocket, built a Streamlit fleet dashboard with a maintenance cost simulator, and containerized everything with Docker Compose, pytest, and CI.

ELT Weather Pipeline | *Python, Airflow, dbt, PostgreSQL, Docker* | github Oct 2026
- Built an Airflow-orchestrated ELT pipeline (extract and load, dbt run, dbt test) that lands raw JSON in PostgreSQL and transforms it into a Kimball star schema with surrogate keys.
- Added 18 dbt tests (uniqueness, not-null, referential integrity); containerized with Docker Compose.

AEMADS – Mobile Energy Monitoring | *Android, Kotlin, Jetpack Compose, Supabase* | github July 2026
- Won 2nd Place as a participant at Bootcamp TETI 2026 (judged by external mentors) with a native Android app for power monitoring and anomaly detection, fed by simulated data from a Python generator.
- Built an MVVM architecture with Jetpack Compose and StateFlow that polls Supabase for telemetry, featuring dynamic Vico charts and camera-integrated damage reporting.

VaniGrow – Real-Time IoT Monitoring | *Next.js, Node.js, Supabase* | github July 2026
- Won 1st Place out of 11 teams as a participant at Bootcamp TETI 2026 (judged by external mentors) with a real-time microclimate and fungal risk monitoring IoT system.
- Architected an event-driven telemetry pipeline from ESP32 edge sensors via MQTT to a Node.js bridge and Supabase, consumed by a Next.js 16 live dashboard.

Technical Skills

Languages: Python, Kotlin, SQL, JavaScript, TypeScript, C++
Frameworks & Libraries: Express.js, Socket.IO, FastAPI, Streamlit, XGBoost, Jetpack Compose, Next.js, React, Node.js, PyTorch, Scikit-Learn, Pandas, Optuna
Developer Tools: Git, GitHub, Supabase, PostgreSQL, MongoDB, Kafka, Airflow, dbt, MQTT, ESP32, Docker

Competition

1st Place – TETI Programming Week October 2025
Data Science Competition – Ranked 1st on Kaggle public leaderboard out of 30+ competitors