



# DIMAS MULYA PERKASA ERNANTA

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With 3 years of experience as a Fullstack Engineer, I have developed various systems spanning backend, web, and machine learning integrations. I am experienced in designing scalable application architectures, building reliable APIs, and implementing responsive and user-friendly web interfaces. Furthermore, I have experience integrating machine learning models into production systems to improve operational efficiency. With a focus on continuous technology development and system performance improvement, I am constantly learning new things and am ready to face the challenges of building end-to-end solutions that provide added value and competitive advantage to companies.

## Work Experiences

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### GainzTech - Surabaya, Indonesia

Sep 2020 - Jul 2021

#### Full Time - Full Stack Developer

- With expertise in building visually appealing and responsive user interfaces, I focus on delivering smooth and intuitive user experiences. In e-commerce projects, I have developed engaging web applications by integrating Vue.js for dynamic front-end components and Laravel for robust and scalable backend solutions, ensuring seamless database management with MySQL.
- For IoT projects, I built end-to-end systems using Laravel as the backend to process and manage data from multiple connected devices, and Flutter to deliver cross-platform mobile and web interfaces with real-time updates.
- Additionally, I worked on internal dashboard projects using Angular to create modular and reusable components with Angular Material, implemented routing with Angular Router, and managed state using @ngrx/store to keep data consistent across the application. I integrated REST APIs for real-time data updates and ensured the UI was responsive and accessible.
- I consistently stay up to date with emerging web development technologies and trends, adopting innovative solutions to create modern, scalable, and high-performance applications.

### Badan Riset dan Inovasi Nasional - Jakarta, Indonesia

Jan 2024 - Aug 2024

#### Contract - Data Science

- I actively conduct literature reviews to stay abreast of recent advances in citation analysis and machine learning. I have collaborated with data scientists to preprocess and annotate large datasets in text classification case studies. The backend technologies I implemented in these projects include using a MySQL database to store and manage data, and using Flask as an API framework to efficiently serve machine learning models. I have developed and refined machine learning models to accurately categorize citations based on pre-defined criteria, making significant contributions to text processing and content analysis in relevant industry contexts.

### PT. Global Data Inspirasi - Yogyakarta, Indonesia

Aug 2024 - May 2025

#### Contract - Full Stack Developer

- I have developed and implemented efficient and secure RESTful APIs using Flask, serving as the backbone for a web-based OTA (Online Travel Agency) hotel application. During development, I collaborated closely with the Next.js frontend team to ensure seamless integration between the backend and client application, resulting in smooth booking flows and optimized user experience.
- I also focused on optimizing database queries and managing data using AWS cloud services (including RDS for PostgreSQL and S3 for storage) to ensure high availability, security, and scalability of the system. This allowed the application to handle real-time room availability updates, bookings, and payment processes effectively.
- Additionally, I worked on several backend initiatives using Java + Spring Boot, where I designed and implemented controller, service, and repository layers with Spring Data JPA to manage hotel, room, and booking data in PostgreSQL. I created environment-specific configurations for development, staging, and production using Spring Profiles. For deployment, I utilized the embedded Tomcat server for local testing and containerized the application using Docker, allowing scalable and consistent deployment across environments.

### PT. Intinya Group - Jakarta, Indonesia

Aug 2024 - Dec 2024

#### Contract - Full Stack AI Developer

- I built an object detection system integrated with CCTV using YOLO and Deep SORT for real-time detection and tracking via RTSP. The system was deployed on a CI/CD pipeline, with Qdrant for vector search and PostgreSQL for data management, encompassing performance analysis,
- I built an outfit detection system by leveraging data stored in AWS S3, using Roboflow for dataset preprocessing and augmentation. The model pipeline combined Grounding DINO for object detection and Segment Anything Model (SAM) for precise segmentation of clothing items. I containerized the solution with Docker and deployed it as a scalable service, enabling real-time inference and easy integration with other systems.
- I built a Retrieval-Augmented Generation (RAG) based chatbot using GPT-3.5 Turbo and Coherence AI, connected to Qdrant (for vector search) and MongoDB (NoSQL), with deployment handled via Docker (CI/CD) and system monitoring using Prometheus and Grafana.
- To improve user experience, I designed and developed mockups and interactive dashboards using React.js, enabling rapid prototyping and seamless integration with the backend services.

Education Level

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Politeknik Negeri Jember  - Jember, East Java, Indonesia


Sep 2020 - May 2024

Bachelor of Information System, 3.77/4.00

- Finalis Lomba Gemastik XV Pada Bidang Penambangan Data

Skills, Achievements & Other Experience

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- **Achievements**  (2022): Lomba Gemastik XV Pada Bidang Penambangan Data