

# Muhammad Rizal Rifai

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## SUMMARY

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Software Engineer specializing in building scalable backend systems for ML & AI platforms. Proven experience in designing and deploying high-throughput RESTful APIs , architecting MLOps pipelines , and optimizing large-scale distributed systems (managing 68M+ documents and 200K+ daily transactions ). Passionate about bridging backend development with AI solutions to deliver efficient, data-driven applications.

## EDUCATION

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### DIPONEGORO UNIVERSITY

Bachelor of Computer Science  
Cumulative GPA: 3.68/4.0;

Semarang, ID  
March 2023

## EXPERIENCE

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### PLN ICON PLUS

Software Enginner

Jakarta, ID

January 2024 – Present

- Developed and maintained 100+ RESTful APIs in Spring Boot for HCS, PLTS, and GEAS projects, enabling seamless integration with other applications and back-office systems
- Designed and implemented scalable ETL data pipelines as background jobs for data synchronization across internal systems and third-party platforms.
- Collaborated with DBAs and SysAdmins to solve performance bottlenecks by implementing table partitioning and materialized view optimizations, reducing query time by 70%.
- Led development of the AIL (Arsip Induk Layanan) system, a large-scale distributed backend managing 68M+ customer documents with 100K-200K daily transactions.
- Led cross-functional coordination and handled full-cycle system management including API development, front-end integration, and back-end data processing

Tools : Spring Boot, PostgreSQL, Selenium, GitLab, Figma, Linux Cron, REST API , Python

### PT MEISTER SINERGI INDONESIAs

Ai Engineer

Bandung, ID

May 2023 – Dec 2023

- Architected and built MLOps pipelines for automated model training, versioning (using DVC), and deployment (using Kubeflow).
  - Researched and deployed 5+ production-ready ML models addressing business needs
  - Automated data preparation and model training workflows, improving team productivity by 20%.
- Tools : Python, Tensorflow, Pytorch, Kuberflow, Docker, DVC ,Git

PT Nodeflux Teknologi Indonesia

Jakarta, ID

AI Engineer - Intern

February 2022 – July 2022

- Developed an end-to-end ML software for computer vision tasks (object detection, segmentation), accelerating annotation processes by 5x.
- Trained and fine-tuned EfficientDet models for vehicle detection, achieving 89% mAP on Nodeflux's dataset.
- Containerized ML models using Docker and deployed to a Kubernetes-based serverless platform (Nucleo), reducing cloud deployment costs by 15%.

Tools : Python, Streamlit, Tensorflow, Pytorch, Flask, Docker, DVC, Fiftyone

## TECHNICAL SKILLS

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**Languages:** Python (Advanced), Java, SQL, JavaScript/TypeScript, Golang

**Backend & Data Engineering:** Spring Boot, Quarkus, PostgreSQL, Docker,, ETL, Git, Linux Cron

**ML Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV

**Cloud & Deployment:** Docker, Kubernetes

**Tools:** Docker, Git, PostgreSQL, Spring Boot, Quarkus, FiftyOne, DVC **Certifications:**

TensorFlow Developer Certificate([here](#))