



Yusril Albi, Bachelor of Computer Science

Data Engineer | Software Engineer | Machine Learning Engineer

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SUMMARY

Experienced **Data Engineer** with a strong background in backend and machine learning. Currently working at a multinational company, collaborating with global project headquarters to design and manage end-to-end data pipeline architectures. Skilled in ingesting and processing multibillion-record datasets, scheduling and maintaining large-scale ingestion systems, and significantly optimizing and refactoring costly pipelines. Proficient in big data processing, cloud service integration and authorization, and leveraging LLMs for advanced data analytics. **[Software Engineer - Data]**

EXPERIENCE

Samsung R&D | Data Engineer Apr 2024 - Present

- **Professional** level Engineer certified by Samsung Head Quarter, S/W Certification.
- Optimized legacy data pipelines, reducing costs from **\$1000/day** to **\$50/day (95%)** using best design architecture, code practice, and instance optimization. Also, created modular architecture with zero downtime reliability.
- Handling more than **200B+** data per-scheduled using **AWS (EKS, EMR, S3), Airflow, Spark, Hadoop**.
- Proposed anomaly detection on **3M+** Robot (20+ sensor) leveraging (C/C++, Python) and custom crawler.
- Code migration with **96%** unit test coverage, **excellent** complexity quality, and **low** cyclomatic design.

Pertamina & Petronas (University) | Machine Learning Engineer Feb 2023 - Jan 2024

- ML Researcher on the project funded with **\$6000**; made patent and thesis for **Hybrid Model in oil & gas**.
- **Time Series** Analysis, Model Prediction **LSTM-RNN** for Asset Integrity, Data Preprocessing and Pipelining.

Shopee | Backend Engineer Aug 2023 - Nov 2023

- **Led the project**, assigned JIRA, planned sprints, **supervised** discussion and retros for a **6-member team**.
- Developed **Rest-API** for Transaction, Crawling **1M+** E-Commerce products (image, etc.), API Documentation.

Banking Industry | Data Engineer Sep 2022 - Mar 2023

- Implement new monitoring architecture using **Elasticsearch, Logstash, and Kibana (ELK)** with integrated KONG.
- **Make ETL for strict and complex data finance**, pipelining user KYC and Compliance Report.

Service Education | Informatics Mentor – Part Time Jan 2020 - Present

- Experience mentoring more than **50+ Senior High School** in Jakarta, Indonesia (C++, Algorithm, etc.).

EDUCATIONS

Bangkit Academy - led by Google | 2022

Machine Learning - TensorFlow Certified [\[Link\]](#)

Universitas Pertamina (Pertamina University) | 2019

Bachelor of Computer Science (Cum Laude), Full Scholarship

▪ **Informatics Competition & Competitive Programming – National Level (Link:** [\[Link\]](#))

- **1st Place in Intercollegiate Olympiad of Informatics: OSM, FUSC, OSSN, FOHKN, BIMAGE, etc.**
- **Honorable Mention in Hology 4.0**

SKILLS

BE Engineer: Go (Golang), C++, BaaS, Redis, Kafka, PostgreSQL, MongoDB, API, node.js, NoSQL, etc.

Data Engineer: SQL, AWS, Airflow, ETL, Python, Big-Query, EKS, EC2, S3, Web Scrapping, Spark, Hadoop, etc.

ML Engineer: Python, NumPy, Pandas, TensorFlow, PyTorch, NLP, LSTM, RNN, DNN, Time Series, etc.

Others: Teamwork, Time Management, Teaching, Proactive Learning, Growth Mindset, etc.

CERTIFICATIONS

Google: IT Automation, Cloud Management, Crash Course on Python, etc.

Certificates (02/2022) [\[Link\]](#)

Imperial London: Mathematics for Machine Learning Certificate, etc.

Certificates (03/2022) [\[Link\]](#)

DeepLearningAI: TensorFlow Developer, TensorFlow Deployment, etc.

Certificates (04/2022) [\[Link\]](#)

LANGUAGE

Indonesia, Melayu **Native**

English

TOEFL 647 (Listening 48/50, Structure&Written 38/40, Vocabulary 47/50) [\[Link\]](#)