



# 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** | Back End 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* 

**Universitas Pertamina (Pertamina University)** | 2019

*Bachelor of Computer Science (Cum Laude), Full Scholarship*

 **Informatics Competition & Competitive Programming – National Level (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) 

**Imperial London:** Mathematics for Machine Learning Certificate, etc.

**Certificates** (03/2022) 

**DeepLearningAI:** TensorFlow Developer, TensorFlow Deployment, etc.

**Certificates** (04/2022) 

## LANGUAGE

Indonesia, Melayu

**Native**

English

**TOEFL 647** (Listening 48/50, Structure&Written 38/40, Vocabulary 47/50) 