

Arief Dwi Rachmadian

Data Engineer | Software Engineer

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Summary

Results-driven Data Engineer and Software Engineer with a strong focus on **building efficient data systems** and **scalable backend applications**. Skilled in **developing robust pipelines**, **managing cloud infrastructure**, and **optimizing code for performance**. Experienced with **Python, Go, JavaScript SQL, Spark, and AWS**. **Apply clean code principles**, **modular design**, and **continuously seek improvement** through **hands-on experience** and **learning**.

Work Experience

Data Engineer

PT. Agri Tekno Karya (Hara Token) – South Jakarta

August 2023 - April 2025

- **Improved system performance by 30%** by replacing nested loops with **vectorized NumPy operations**.
- **Refactored legacy codebase** using **clean code** and **modular design**, increasing maintainability and reducing bugs.
- **Designed and deployed** an end-to-end **data traceability system** for Iberia and GVL projects using **Python, PostgreSQL, AWS (ECS, ECR, S3), and Docker**.
- **Built an automated ETL pipeline** integrating **Google Sheets, databases, and web apps**, reducing manual workload by 80%.
- **Analyzed a 203M-row dataset** using **Apache Spark & Hadoop**, leading to operational insights that influenced strategic decisions.
- **Implemented scheduled updates** using **AWS Lambda and CloudWatch**, increasing system reliability.

Application Developer Intern

PT. Acset Indonusa Tbk – Central Jakarta

February 2021 - February 2022

- **Introduced Service Level Agreements (SLAs)** into the **Bookride program**, enhancing helpdesk reporting accuracy by 20–30%.
- **Designed a responsive interface** for the **Document Management System (DMS)**, enhancing user experience.
- **Collaborated with senior developers** to **build features** and **fix bugs** in **production applications**.
- **Trusted to lead and deliver a standalone project independently**, demonstrating initiative and accountability.
- **Participated in requirements gathering** and delivered tasks consistently on time with an **average grade above 90**.

Hard Skills

Programming: Python, Go, SQL (PostgreSQL, MySQL, SQL Server), JavaScript (React, Node.js)

Data Engineering: Apache Spark, Hadoop, Pandas, NumPy

Cloud & DevOps: AWS (Lambda, ECS, ECR, CloudWatch), Docker, Airflow (basic), Bash

Version Control: Git, GitHub, GitLab

Soft Skills

Adaptive, Collaborative, Communicative, Continuous Learner, Creative, Organized, Team-oriented

Languages

Indonesian: Native

English: Intermediate

Education

EF International Language Campuses – Online

January 2024 - January 2025

- Studying **business English**, focusing on **grammar, vocabulary, listening, speaking, and writing** for professional communication.

Fresh Graduate Academy – Data Science

Digital Talent Scholarship – Online

March 2023 - April 2023

- Learned **big data processing, statistical analysis, and machine learning** (regression, classification, clustering).
- **Presented data insights clearly** through **visualization and storytelling techniques**.

Bachelor's Degree in Computer Science

Bina Nusantara University – West Jakarta

October 2018 - September 2022

- Activities and societies: **Himpunan Mahasiswa Teknik Informatika (HIMTI)**, **Mahasiswa Bina Nusantara Pencinta Alam (SWANARAPALA)**, **Bina Nusantara English Club (BNEC)**.
- Specialized in **Database Management** and **Big Data Technologies** (Spark, Hadoop, SQL).