

ALYA MUTIARA FIRDAUSYI

Tangerang, ID • alyafirdausyi@gmail.com • +6282297125313 • [linkedin.com/in/alyamf](https://www.linkedin.com/in/alyamf) • [Portfolio](#)

Experienced Data Engineer specializing in designing and implementing scalable, cross-cloud data platforms and warehouse solutions to support advanced business and finance reporting. Proven expertise in orchestrating workflows using Airflow, managing large-scale ETL/ELT processes across GCP and AWS, and building robust real-time streaming solutions with Kafka. Strong command of SQL, Python, and Java, with experience in implementing CI/CD pipelines to ensure reliable, high-quality data delivery and deployment automation.

PROFESSIONAL EXPERIENCE

LINKNET ([LINKNET.CO.ID](https://linknet.co.id))

Data Platform Engineer

Tangerang, ID

Aug 2024 - Present

PT Link Net Tbk is a leading Indonesian telecommunications provider delivering high-speed broadband, premium pay-TV, and innovative connectivity solutions through its extensive fiber network under the First Media and Link Net Fiber brands.

- Engineered end-to-end ETL pipelines ingesting data from diverse on-premise sources (MySQL, Oracle, SQL Server, and SAP DB) into a multi-layer BigQuery data warehouse and an S3-based lakehouse; implemented Medallion architecture and Slowly Changing Dimensions (SCD) with Open Table Formats to optimize analytical performance.
- Orchestrated and automated large-scale, cross-cloud data workflows by designing and managing 20+ Airflow DAGs with SLA monitoring and automating complex ETL using Python/Java with GCP tools (Dataproc, Dataflow).
- Led cloud migration initiatives by successfully moving 200+ tables from GCP to AWS, utilizing AWS Glue, Lake Formation, and MWAA, significantly optimizing metadata governance and performance.
- Implemented a real-time Change Data Capture (CDC) pipeline using Apache Kafka and Debezium to stream data changes from SQL Server to downstream application APIs, enabling event-driven integration and reducing data latency.
- Implemented a robust CI/CD pipeline using Azure DevOps to automate the deployment and management of all data assets, including AWS Glue jobs, Athena queries, Redshift, and Airflow DAGs.

XTREMAX TEKNOLOGI INDONESIA ([XTREMAX.COM](https://xtremax.com))

Cloud Engineer

Bandung, ID

Mar 2019 - Oct 2022

Xtremax is a certified digital transformation company providing innovative cloud solutions. Headquartered in Singapore, Xtremax has assisted numerous clients with large-scale server migrations, cloud migrations, application modernizations, containerized services, and more.

- Maintained and optimized over 20 internal servers on AWS EC2, utilizing Load Balancers and Auto Scaling Groups. This work on the Content Website Platform project ensured seamless operations, proactive troubleshooting, and continuous enhancements.
- Remediated and addressed over 500 vulnerability findings within cloud servers and infrastructure using the Nexpose vulnerability scanner. This work fortified security and minimized potential risks, resulting in a 70% reduction in security incidents.
- Empowered developer teams by streamlining the installation, configuration, patching, and troubleshooting of services for five Content Management Systems (WordPress, SWIIT, Sitecore, Sitefinity, and SharePoint) across Linux and Windows OS environments.
- Documented over 100 complex issues addressed and resolutions provided as Change Request for Comment (RFC), Incident Report, Build Docs, or Wiki, while consistently updating project build and manual documentation.
- Facilitated guidance and support to onboard 2 new team members while collaborating with fellow engineers on deployment tasks.

WORKSHOP

IYKRA ([IYKRA.COM](https://iykra.com))

Jakarta, ID

Data Engineer – Data Fellowship 12

Mar 2024 - Jul 2024

IYKRA is a Consulting, Training, and Implementation company focusing on technology development in AI, Big Data, and Analytics for enterprises and individuals. Among the programs offered by IYKRA is the Data Fellowship, designed to accelerate the journey of aspiring young Indonesian individuals pursuing careers as Data Engineers.

- Selected as one of 20 Data Fellowship Batch 12 students, awarded a fully funded scholarship to complete an intensive 4-month comprehensive data engineering curriculum.
- Led a team of five in building a customer segmentation model (capstone project: "Building Customer Segmentation for Effective Personalized Marketing") that earned the Best Capstone Project distinction.
- Developed end-to-end data pipelines that ingested data from data lakes (GCP), performed transformations using big data tools (Airflow, dbt, Apache Kafka, Apache NiFi, BigQuery), and delivered results through data visualizations (Looker, Tableau).
- Leveraged dbt to transform and ingest data into Google BigQuery as a data warehouse.

EDUCATION

INSTITUT TEKNOLOGI BANDUNG

Bandung, ID

Master of Science in Computational Science

2020 - 2023

INSTITUT TEKNOLOGI BANDUNG

Bandung, ID

Bachelor of Science in Physics

2014 - 2018

ADDITIONAL INFORMATION

- CERTIFICATION**
- [AWS Data Engineer Associate](#) (2025)
 - [Google Data Analytics](#) (2024)
 - [Microsoft Certified: Azure Fundamentals](#) (2023)
 - [AWS Solution Architect Associate](#) (2022)

- SKILLS**
- **Languages:** Python, Java, Shell, SQL
 - **Data Tools:** Apache Airflow, Kafka, PySpark
 - **Cloud Platform:** AWS (EC2, S3, AWS Glue, Lake Formation, Athena, Redshift, MWAA), GCP (Dataproc, Dataflow, BigQuery)
 - **Database:** PostgreSQL, MySQL, OracleDB, SQL Server, Snowflake, NoSQL (Cassandra)
 - **Other:** Git, Docker, Linux, Azure DevOps