VEBRI SATRIADI

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EXECUTIVE SUMMARY

Data Engineer who oriented to the result and specialized in modernization of data infrastructure and architecture. Experience in automating pipelines with Python and Airflow, managed large data batch with Apache Spark, implemented stream data processing with Apache Kafka and Apache Flink. Proven reduced CPU usage until 50% and memory until 30%. Looking for an opportunity to build a reliable and scalable end-to-end data solution.

EXPERIENCE

Alodokter   August 2023 - November 2024
Senior Data Engineer   *Jakarta Selatan, Jakarta Raya*

· Improved ingestion process from MongoDB to Data lake. Reduced up to 6x memory usage (average 3 GB to 500 MB) and 2x time execution (9 minutes to 4.5 minutes) by refactoring Python legacy code in Cloud Function.
· Improved up to 40% work time efficiency from manual effort by enhanced Jinja2 code generator template.
· Reduced cost up to 3 million IDR per month for Data Warehouse by lead project to implementing Slow Changing Dimension (SCD) Type 2, clustering, and partitioning in BigQuery.
· Utilized and Optimized Kubernetes for container orchestration, enabling seamless deployment and scaling of data applications. Reduced for about 50% CPU usage and 30% memory usage by separating different nodes in a Kubernetes cluster for several services in Airflow.
· Consolidated multiple marketing API into one dashboard platform to make marketing team monitor the marketing performance each marketing platform easier.
· Mentoring and delegating task to Data Engineer to achieve the high value of teams and data products.
· Collaborated with Data Analyst, DevOps Engineer, Principal Engineer, and business stakeholders to design and implement data solutions that met their specific requirements and needs.
· Tools: Google Cloud Platform (GCP), Cloud Function, Google Kubernetes Engine (GKE), Apache Airflow, Pub/Sub, Jinja2, BigQuery, MongoDB, PostgreSQL, FastAPI, Looker Studio

COMPFEST   September 2024 - October 2024
Mentor   *Depok, Jawa Barat*

· COMPFEST is one of the greatest IT competition in Indonesia, I was focus to mentoring Data Analytics Dash (DAD) section.
· Mentored finalists in the Data Analytic Dash (DAD) competition, guiding them in the development of data-driven insights and dashboard design.
· Focused on using Tableau for data visualization and storytelling to prepare participants for final evaluations.
· Tools: Tableau

Alterra Academy   October 2023 - December 2023
Data Engineer Mentor   *Remote*

· Mentored aspiring data engineers on foundational and advanced topics, including Python, Kafka, Airflow, Git, and Scrum Agile methodologies.
· Provided guidance through hands-on projects, enabling mentees to acquire practical skills essential for data engineering roles.
· Tools: Apache Kafka, Apache Airflow, Git, Docker

Koltiva   August 2022 - August 2023
Data Engineer   *Jakarta Selatan, Jakarta Raya*

· Built and maintained a robust cloud-based data infrastructure using AWS services such as S3 and RDS, resulting in improved scalability and cost-effectiveness.
· Automated data processing and analysis workflows using Python and Apache Airflow, reducing manual effort and increasing efficiency by 50%.
· Initiate and implemented version control for data pipelines and scripts using Git, enabling easier collaboration and faster problem resolution.
· Building real time data processing using AWS MSK to stream data from multiple topics.
· Improved data access and analysis by integrating AWS services such as Redshift and S3 into the data pipeline, enabling faster querying and analysis of large datasets.
· Collaborated with Business Intelligence, Data Analyst, DevOps Engineer, and business stakeholders to design and implement data solutions that met their specific requirements and needs.
· Tools: Amazon Web Service (AWS), Amazon MSK, Amazon RDS, Amazon Lambda, Amazon S3, ElasticSearch, Amazon EC2, Apache Airflow, Flask.

Insignia   September 2021 - August 2022
Data Engineer   *Jakarta Barat, Jakarta Raya*

· Successfully created TextThink, "Word Text Analysis" to filtering, analyzing, and counting particular words based on datasets (.csv, .xlsx, .tsv, etc).
· Designed, developed, and maintenance Data Warehouse.
· Conductied data orchestration using Apache Airflow.
· Handling ETL jobs using Airflow and Apache Nifi.
· Developed, monitoring, and reporting dashboard using Metabase and Tableau.
· Maintaining and managing company's data infrastructure.
· Tools: Google Cloud Platform (GCP), BigQuery, Apache Airflow, Apache Nifi, Metabase, Tableau.

Freelancers   January 2022 - August 2023
Business Intelligence Developer   *Worldwide*

· Handling Data Visualization.
· Given consultation for which kind of database should client use.
· Handled clients from worldwide.
· Determined the data visualization.
· Tools: Metabase, Tableau, Google Data Studio.

PT. Visidata Anugerah Mitra   December 2020 - September 2021
Data Analyst   *Jakarta Selatan, Jakarta Raya*

· Successfully to serve data insights to our clients from across industries, including banking, FMCG, e-commerce, etc.
· Gather insights start from ingestion data, transforming, until analytics.
· Tools: Alteryx, Tableau, Python.
· Coordinated with team and supervisor during project.

Informatics UII Laboratory   October 2018 - October 2019
Laboratory Assistant   *Sleman, Yogyakarta*

· My responsibility is to support our lecturer in curricular activities in laboratory. I also leading the students to more understanding about the curriculum.

EDUCATION

Universitas Islam Indonesia   *2016-2020*
Bachelor of Informatics
Informatics Department

Bachelor Thesis: Evaluate of PLN Electricity Network for Village Areas Using Genetic Algorithm
Lead of Big Data Visualization Community (2018 - 2020)
Overall GPA: Distinction (3.6/4.0)

PROJECTS

Freelance - Eratani   2025
Migrating Data Infrastructure   *Remote*

· Migrated data infrastructure from AWS to GCP with a new centralized data architecture.
· Set up CI/CD pipelines with Cloud Build and Github.
· Fixed workflow by implementing different environment (Staging and Production).
· Set up ingestion from PostgreSQL to BigQuery with Cloud Functions and orchestrate with Cloud Composer (Apache Airflow).
· Providing consultation for data engineering best practices.
· Tools: Google Cloud Platform (GCP), Cloud Functions, Cloud Composer, BigQuery, Cloud Build, PostgreSQL.

Freelance - Startup Company   2021
Credit Risk Analysis API   *Jakarta, Indonesia*

· I was responsible for building the API for the endpoint project. The main case is to know what kind of risk can be classified for their customer. I built the algorithm with C5.0 which is a decision tree derivative and using R as a scripting language.

Freelance - Boson Tech   2021
Commercial Dashboard   *USA - Remote*

· Building more than 30 interactive dashboards to serve multiple companies all over the world. These dashboards were built to handle and support decision-making. I built it mainly with Tableau and Metabase.

Personal Project   2024
Streaming Data Processing with Apache Flink   *Worldwide*

· Building a simple streaming data processing flow with Apache Flink.
· Data come from Faker library, Kafka for message broker, Flink to processed the data, and load them into Postgresql.
· All of the technology stacks encapsulated with Dockerfile.
· Link: github.com/vebrisatriadi/stream-processing