FERDIAN IFKARSYAH

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EXPERIENCES

Fazz (YC S17)   Jakarta, Indonesia
Senior Data Engineer   *May 2024 - Present*

- Reduced RDS pipeline steps from 5 to 3 by eliminating redundant copy steps and developed a **Terraform** module for automating **GCP Storage Transfer** creation.
- Minimized load on the production database by migrating recurring ad-hoc analytics queries to **BigQuery**.

Xendit (YC S15)   Remote
L4 Data Infrastructure Engineer   *Oct 2022 - March 2024*

- Achieved $7,400 monthly cost reduction by transitioning **Trino** from multizone to active-standby architecture.
- Provisioned **Kubernetes** cluster from scratch, and migrated Trino from EMR, resulting in 80% cost reduction.
- Developed a Web UI to team's data platform using **Flask API** and **Retool**, reducing manual ticket by 90%.
- Implemented instance right-sizing strategies and reserved instances, resulting in a $2,300 monthly cost reduction.

L3 Data Engineer   *Oct 2021 - Sep 2022*

- Accelerated user journey analysis by 10x by shifting from batch event tracking to real-time using **Kafka**.
- Optimized pipeline queue time by 60% using **Airflow** TaskGroup to group and manage heavy workload tasks.
- Automated **Spark** clusters provisioning using **Terraform** reduced processing time from 2 days to 10 minutes.
- Developed a system to ensure heavy **dbt** pipelines includes partitioning key, minimizing full table scans by 20%.

L2 Junior Data Engineer   *Mar 2021 - Sep 2021*

- Introduced **Presto** long query alerting system that reduced p99 query time from 2 minutes to 30 seconds.
- Integrated 2000+ lines of custom **Python** ETL code contributed by multiple users into a centralized library.
- Ingested 100+ tables from **PostgreSQL** and **MongoDB** across the companies into data lakehouse.

Shopee (NYSE:SE)   Jakarta, Indonesia
Backend Engineer Intern   *May 2020 - Aug 2020*

- Optimized Share & Win service Google **PubSub** consumer using buffering mechanism, improving throughput by 25%.
- Reduced attribute matching time by 20% on Share & Win by changing array data structure to hash-table.

EDUCATION

- **Bandung Institute of Technology**, B.S. in Computer Science   Aug 2017 - Oct 2021
  Lab Assistant: KU1102 - Introduction to Information Technology (Sep 2019 - Dec 2019).

ACHIEVEMENTS

- [**National**] **First Place, Tokopedia DevCamp 2021** Won the hackathon competition out of 4000 contestants by creating Pasin, a web service to recommend the best clothing sizes for marketplace customers.
- [**Regional**] **Finalist (Top 50), ACM-ICPC Asia Jakarta Regional 2019** Advanced to finals through competition between more than 500 teams. Codes with C++ for competitive programming.

PROJECTS

- **Eevee (September 2020)** E-commerce app built with microservice architecture. Tools: Go, React.js, Docker, PostgreSQL, and RabbitMQ.
- **URLite (August 2020)** Implemented personal URL shortener service, similar to TinyURL. Tools: Scala, Redis