Lim Jing Jie

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EDUCATION

Bachelor of Science in Software Engineering (Part-Time)   Aug 2022 – Dec 2025 (Expected)
Singapore Management University

PROFESSIONAL EXPERIENCE

Data Engineer   Aug 2023 – Present
Secretlab

- Facilitated dimensional modeling and optimized ELT processes with dbt, Fivetran, and Snowflake, achieving a 18.4% decrease in data processing time and enhancing data accuracy by 5%.
- Collaborated across departments to build a feature store and deploy a machine learning model for freight delivery date estimation, resulting in a 12% reduction in delivery delays.
- Deployed an ETL pipeline to ingest data from partner APIs using AWS Lambda, increasing reporting speed by 10%.

Software Engineer   Jun 2021 – May 2023
Scantist ⌗

- Architected and implemented a scalable data processing pipeline using GCP Dataproc, Spark, Airflow, and Python, generating a 200% increase in transaction throughput.
- Automated ETL and web scraping processes across more than 1TB transactions, saving up to 8 hours of manual workload daily.
- Implemented extensive unit tests using pytest to increase test coverage by 20%, significantly enhancing data quality and accuracy.

Software Engineer Intern   Feb 2019 – Jun 2019
Latize ⌗

- Spearheaded the implementation of Elasticsearch and Apache Spark, resulting in a 27% increase in analytics runtime performance on data up to 100GB.
- Conducted performance testing and optimized ETL processes and algorithms, reducing response latency by 8.98%.
- Integrated Spark machine learning capabilities, improving the efficiency of ML development by 19.7%.

Data Science Intern   Oct 2018 – Feb 2019
Jewel Paymentech ⌗

- Devised and tuned an ML model for merchant website fraud detection with an 82.51% f1-score, leading to a 5% decrease in false positives.
- Created a pipeline to automate data archival and model training, optimizing the model development lifecycle.
- Researched and applied deep learning models such as RNN and CNN for NLP using pre-trained word embeddings (Glove) and improved the model's accuracy by 7%.

PROJECTS

UniExplorers [github link] ⌗   Aug 2023 – May 2024

- Developed a centralised university exchange platform empowering students to seamlessly explore exchange programs and connect with peers through an interactive forum.
- Architected backend microservices in Go and NodeJS, employing Kubernetes for container orchestration.
- Built a real-time gRPC notification service with Go and RabbitMQ for enhanced user engagement and responsiveness.
- Integrated Prometheus and Grafana to track system metrics and ensure optimal performance of backend services.

Ascenda Loyalty Management System [github link] ⌗   Jan 2024 – May 2024

- Created an administrative system to manage resources such as customers and loyalty points, across multiple banks.
- Developed backend microservices using Go, ensuring efficient and scalable service-oriented architecture.
- Implemented serverless architecture with AWS Lambda and API Gateway to optimize performance and reduce operational overhead.

PROFESSIONAL CREDENTIALS

- AWS Certified Solutions Architect Associate ⌗   • GCP Certified Professional Data Engineer ⌗

SKILLS

Coding: Python, Go, JavaScript, Java, SQL, NodeJS │ **DevOps:** Git, Docker, Kubernetes, Terraform, GitHub Actions │
Big Data: Snowflake, dbt, Airflow, Spark, Hive, MongoDB, Elasticsearch, BigQuery, Postgres