

Lim Jing Jie

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EDUCATION

Bachelor of Science (Software Engineering)
Singapore Management University

Aug 2022 – Dec 2025 (Expected)

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 [🔗](#)

- Revamped data architecture to process semi-structured data through GCP Dataproc using Spark, Airflow, and Python, generating a 200% increase in production workload.
- Automated ETL and web scraping processes across more than 100 million raw data records, saving up to 8 hours of manual workload daily.
- Built robust operational monitoring tools using Grafana and ensured 99.99% uptime of critical business services.

Software Engineer Intern

Feb 2019 – Jun 2019

Latize [🔗](#)

- Spearheaded the implementation of Elasticsearch and Apache Spark, which led to a 27% increase in analytics runtime performance on data up to 100GB.
- Conducted performance testing and optimized ETL processes and algorithms, reducing response time 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 [🔗](#)

- Engineered 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 – Present

- Developed a centralised university exchange platform empowering students to seamlessly explore exchange programs, connect with peers through a dynamic group chat, and gain valuable insights from alumni via 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.

KidZania Queue Management System [\[github link\]](#) [🔗](#)

Feb 2018 – Aug 2018

- Digitalized KidZania's queuing operations and administrative processes, resulting in up to a 3-hour reduction in customer waiting times.
- Created an operational dashboard empowering managers to optimize workforce allocation based on real-time booking data, enhancing operational efficiency by 2 fold.

PROFESSIONAL CREDENTIALS

- AWS Certified Solutions Architect Associate [🔗](#)
- GCP Certified Professional Data Engineer [🔗](#)

SKILLS

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