

(LARRY) HO KING HONH

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EDUCATION

BSc with Honours in Computing Science | ASEAN Undergraduate Scholarship

Singapore Institute of Technology & University of Glasgow

Graduated in April 26'

Singapore

Relevant Coursework: Cloud & Distributed Computing, Data Analytics, Data Structures & Algorithms, Database Systems, Object Oriented Programming, Machine Learning, Web Programming

RELEVANT EXPERIENCE

Software Engineer Intern

Sep 25' – April 26'

Hitachi Rail | *Python, Java, PostgreSQL, Jenkins, Git, Grafana, Linux, PromQL, Pivotal Cloud Foundry*

Singapore

- Supported data pipeline migration by rewriting a Python application to Java with weekly check-ins with my supervisor, reducing log processing time by **50%**
- Spearheaded Grafana dashboard designs, displayed metrics across **65+** equipments using Prometheus, presented it to senior system engineers while addressing their concerns, laying groundwork for future monitoring enhancements
- Maintained existing data pipeline that handles **GBs** of heterogeneous data by conducting debugging sessions, updating lookup tables and Jenkins configurations for deployment
- Developed Python scripts to automate internal tasks like downloading partitioned Parquet files from the data lake, extracting and manipulating data to calculate train speed after a traveling distance to support image model training

PROJECTS

LeetCode Question Randomizer | *Python, React, TypeScript, TailwindCSS, PostgreSQL, Docker, AWS*

- Developed and deployed a scheduled Lambda with SAM responsible for updating the database with new questions published
- Implemented CloudWatch and SNS for alerts when Lambda does not run successfully to reduce maintenance efforts

Spotify Recommendation System | *Python, HTML, CSS, JavaScript, Docker, Kubernetes, gRPC*

- Integrated a model leveraging **PCA** and **K-Means** to cluster songs with **9** audio attributes and **28K+** genres
- Performed data processing on **1M+** songs for the model to provide more diverse and personalized results
- Implemented **gRPC** for real-time, low-latency communication between microservices and the model, and containerized multiple microservices with Docker and Kubernetes

Personal Website | *React, TypeScript, TailwindCSS*

- Developed a personalized website displaying my professional experience, passion projects, and software engineering blogs

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, SQL, PromQL

Frameworks/Libraries: React, NextJS, TailwindCSS, Spring Boot, Jupyter Notebook, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Node.js, gRPC

Tools: pgAdmin, AWS, Docker Desktop, Kubernetes, Cmdr, Git, BitBucket, Pivotal Cloud Foundry, Grafana, LaTeX

LEADERSHIP

Mindsports Club President (2024) & Publicity (2025)

- Held weekly sessions, handled all club administrative matters and curated social media content
- Lead the preparation of a chess tournament for an annual university event by liaising with event executive committees

OTHER EXPERIENCE

Mathematics Tutor

May 24' –

- Facilitated a **15-20%** improvement in students' examination scores through personalized tutoring strategies
- Communicated with parents regularly to provide updates on students' progress and address concerns

ACHIEVEMENTS

Best Pitch @ HackRift 2024 - Out of 28 teams

Gold Medalist @ Kijang Economics Competition 2022 - Top 1.5% out of 806 contestants