

Skills_

- Programming Languages: Golang Java TypeScript Python Ruby C++ C sh SQL
- Tools: Linux Docker Kubernetes AWS GCP Nginx Jenkins React Redux GraphQL Angular Ruby on Rails Git LTFX
- Certifications: Associate Cloud Engineer (Google Cloud Platform), Certified Cloud Practitioner (Amazon Web Services)

Education_

National University of Singapore (NUS)

Sinaapore

Double Degree in Computing (Computer Science) and Science (Applied Mathematics)

Aug. 2018 - Present

- Cumulative CAP: 4.96 / 5.0 (First Class Honors)
- Honors & Awards: Dean's List Award (Fall '19, Spring '20), President of CVWO

Work Experience __

Amazon Web Services (AWS)

Singapore

Cloud Architect

Aug. 2020 - Present

• Tasked to design and build real-world solutions for clients using AWS cloud services.

Shopee Platform Engineer, Relational Database System (RDS) Team

Singapore Jun. 2020 - Aug. 2020

- Designed and developed a distributed solution for performing physical backups and restores on RDS MySQL clusters using XtraBackup engine. Enhancements include parallelised operations, failover and rollback mechanisms, data compression and checksum verification.
- Implemented an S3 Server with MinIO and Docker for streaming and storing database backups remotely.
- Designed and implemented an API Gateway for managing and killing database connections to RDS MySQL clusters and instances.

Computing for Voluntary Welfare Organisations (CVWO)

Singapore

Team Lead (2020), Software & DevOps Engineer (2019)

May. 2019 - Aug. 2020

- Led a team of 8 developers to work on 2 projects in 2020 Senior Activities Centre / Neighborhood Links (SACNL) and GIC Sparks.
- SACNL is a workflow management system used by 12 elderly care centres across Singapore to serve thousands of old folks everyday. We refactored the existing Ruby on Rails application into an API backend server and developed a new frontend in React-Redux.
- GIC Sparks is a progressive web app developed for the GIC Sparks & Smiles Program. We made substantial improvements to the UX and implemented new features such as cohort registration, CSV imports/exports and PDF reports.

Cancer Science Institute (CSI)

Singapore

Data Analyst

Jan. 2019 - May. 2019

· Developed extensible command line tools for working with NSCC supercomputers to extract meaningful results from terabytes of raw genomic data. Results were used to profile algorithms that identify cancer-causing mutations based on cost, speed and accuracy.

Projects

TEAMMATES

Sinaapore

Dec. 2019 - Present

Senior Developer, Area Lead (DevOps)

• TEAMMATES is an online peer evaluation system with more than 500,000 users from over 2,000 educational institutions.

Restructured codebase (Angular-Java-Google App Engine) to improve code quality, maintainability and testability.

Netlify CMS Singapore

Contributor

Jan. 2020 - Jun. 2020

- · Netlify CMS is an open source headless git-based content management system (CMS) for managing static sites.
- · Refactored codebase (React-Redux-Typescript) to include support for multiple languages and improved documentation.

Extracurricular Activity _____

Computing for Voluntary Welfare Organisations (CVWO)

Singapore

Sep. 2019 - Present

Dec. 2018 - Present

President

- CVWO is a student club in NUS that develops IT systems to help our partner VWOs serve the community more effectively.
- Responsibilities include managing live production systems, liaising with clients and overseeing recruitment and publicity efforts.

National University of Singapore (NUS)

Singapore

Teachina Assistant

Coreteam Member

Aug. 2019 - May. 2020

- CS1101S Programming Methodology (Fall '19) Student rating of 4.8/5.0.
- CS2040S Data Structures and Algorithms (Spring '20) Student rating of 4.8/5.0 Head Teaching Assistant.

NUS Hackers Singapore

• NUS Hackers is a student-run organization committed to the spread of hacker culture and free, open source software.

• Organized events such as Friday Hacks (a weekly tech meetup) and Hack & Roll (the largest student-run hackathon in Singapore).