

Loh Yang Xian

SINGAPOREAN | +65 96887803 | lohyangxian@u.nus.edu | <https://www.linkedin.com/in/loh-yang-xian/>

Education

National University of Singapore
Bachelor of Science in Business Analytics

Expected May 2025
GPA: 4.33/5.0

Work Experience

Autodesk

Software Engineering Intern

Singapore
May 2023 – Present

- Reduced Search API average response time from 5000ms to 100ms for large datasets by developing a preprocessing feature to facet whitelisted fields into the index
- Achieved code test coverage of over 80% by writing unit tests with Mockito
- Refactored packages to allow New Relic metrics to be shared among all microservices, improving scalability and ease of monitoring the performance of the files and derivatives system
- Designed comprehensive workflows to facilitate rigorous quality assurance testing of targeted features using Postman, upholding a consistent integration test coverage of 80% throughout the testing process
- Wrote QA tests in Postman to cover workflows including CORS requests and versioning features
- Wrote scripts to proactively track API endpoints used by clients, quantifying API performance on Splunk for service reviews

National University of Singapore

CS2040 Data Structures and Algorithms Teaching Assistant

Singapore
June 2023 – Aug 2023

- Conducted weekly lab sessions for a class of 8 students in CS2040, focusing on Java programming, data structures and algorithms
- Dedicated extra time after regular class hours to provide consultation and conduct code reviews
- Achieved a remarkable 50% distinction rate in the class

NCS Group

Software Engineering Intern

Singapore
Dec 2022 – May 2023

- Designed and built pages for a hospital subvention system tool in Angular, serving over 20 hospitals
- Designed and developed download API in Spring Boot for webapp to process and download large hospital reports in Microsoft Excel format
- Developed dashboard, download, and search components in Angular, which allowed for easy unit testing

Skills

Programming Languages: Java, JavaScript, TypeScript, Python, SQL, HTML, CSS, R, Go

Frameworks: Spring Boot, Angular, Vue.js, React, Flask, Mockito

Technologies: Microsoft SQL, MySQL, AWS, Jenkins, Postman, Firebase, Git, Splunk, Docker, Redis

Projects

Instant Messaging System

June 2023

- Developed an instant messaging system using Go
- Implemented backend architecture consisting of HTTP server and RPC server
- Utilized Redis as data storage for fast message storage and retrieval
- Leveraged Docker to containerize API for easy deployment and scalability

Karaoke Booking System

Jan 2023 – May 2023

- Led development of frontend components in Vue.js, maintained code consistency among team members
- Developed GitHub workflow scripts for integration testing, allowing quick detection of bugs in development
- Implemented unit testing for user registration and authentication in Vue.js

Certifications and Awards

Certifications and Training: Amazon Web Services Cloud Practitioner, TikTok Foundation Programme in Server, QA, SRE

Awards: NES Ground Zero 2023 – Finalist