

# Sheng Yong Christopher Lim

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## Education

### Carnegie Mellon University

Pittsburgh, PA

Master of Computational Data Science (**Systems concentration**)

May 2022 - Dec 2023

- Selected Coursework: Database Systems (15-445/645), Introduction to Computer Systems (15-213/513), Introduction to Machine Learning (10-301/601)

### Singapore Management University

Singapore

Bachelor of Science in Computer Science (AI and Cybersecurity track)

Aug 2019 - Dec 2023

- GPA: 4.0/4.0 • Dean's List for AY19/20, AY20/21 • Recipient of SCIS Aspirations Scholarship.
- Teaching Assistant: • Programming Fundamentals in C • Algorithms and Data Structures.
- Selected Coursework: • Deep Learning and Vision (PhD) • Operating Systems with Android • IT Solution Architecture
- Co-Curricular Activities: • Whitehat Society (Vice President) • Latin Ballroom • Hackathon Enthusiast

## Work Experience

### Facebook/Meta

Singapore

Enterprise Software Engineer Intern

May 2022 - Aug 2022

- Designed a generic form custom renderer that gives form administrators a no-code way to build and manage forms, replacing the old legacy system which requires significant code changes on multiple systems to add new form fields.
- Collaborated with UX design and data engineers to integrate the custom form renderer into a system serving Meta employees worldwide for all travel and event risk assessment form intake. (React, Relay, GraphQL & Hack)

### Open Government Products, Govtech Singapore

Singapore

Software Engineer Intern

Dec 2021 - May 2022

- Worked on two open-sourced projects [ask.gov.sg](https://ask.gov.sg) & petitions (hackathon); and two internal projects [covid.gov.sg](https://covid.gov.sg) & [scamshield.gov.sg](https://scamshield.gov.sg) to support nationwide efforts to fight scam and support Covid19 vaccination measures for 7 million Singaporeans.
- Implemented authentication flows using OIDC and built anonymity-preserving features for petitions (NodeJS).
- Migrated Covid19 system from JavaScript to Typescript to support typed entities with zero production downtime.
- Setup Storybook integration for reliable UI documentation and spot-testing (JavaScript/TypeScript/React).

### Ascenda

Singapore

Software Engineer Intern

May 2021- Aug 2021

- Designed and implemented full-stack features for hotel destination search and user-action tracking across all white labels using Ruby & AngularJS. Presented a tech demo to the entire tech team of over 50 developers.
- Enhanced legacy front-end codebase by migrating from AngularJS to Angular and performing code-refactoring.

## Technical Projects

Advanced Threat Detection for Government Commercial Cloud (Capstone project) – Built a data pipeline for building and deploying robust AI models, with cross-platform support for AlaaS solutions from AWS, Azure & GCP.

Copycat – Created a [source code plagiarism detector](#) to detect string similarity and logic similarity using abstract syntax trees, HashMaps and Merkle roots. The project is mainly built on Java and explores various data structures and algorithms.

Ryverbank – Created digital banking API for SMU-X module with Credit Suisse (Singapore) as project owner. The project adopts a microservice architecture built on SpringBoot framework, secured by JWT authentication, and deployed using Docker Compose. Awarded Best Technical Team and delivered tech demo to over 50 Credit Suisse developers.

HelloWorld – Created a [hackathon-winning mobile application](#) that allows travel-hungry users to explore the world and collect landmarks in 3D using augmented reality. The application was built using React-Native and Viro React AR libraries.

## Skills

**Programming Languages:** C/C++, Python, Java, Javascript/Typescript, HTML/CSS, SQL