# **Sheng Yong Christopher Lim**

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Seeking 2023 summer internship • Expected graduation: 23/12/2023

#### 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 (Al 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 <u>ask.gov.sq</u> & petitions (hackathon); and two internal projects <u>covid.gov.sq</u> & <u>scamshield.gov.sq</u> 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 <u>source code plagiarism detector</u> 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. Awarded Best Technical Team and delivered tech demo to over 50 Credit Suisse developers.

HelloWorld – Created a <u>hackathon-winning mobile application</u> 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 & Activities**

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

Hackathons: •DSTA CODE\_EXP '21 (1st out of 200 teams) •JPMorgan Code For Good (Finalist, top 6 in category)

•NUS Hack for Good '21 (3rd out of 90 teams) • GovTech Stack the Flag CTF (14th out of 232 teams)