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 (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 & petitions (hackathon); and two internal projects covid.gov.sg & 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 AIaaS 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. 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 & 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)