

Omer Wai Yan Oo

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EDUCATION

Singapore Management University

Singapore

Bachelor of Science in Computer Science

August 2020 – December 2023

- **Teaching Assistant** for Collaborative Software Development (CS203)
- **Relevant Coursework:** Data Structures, Design and Analysis of Algorithms, Networks, Operating Systems, Big Data Architecture, Machine Learning, Solution Architecture & DevOps
- Technology Executive at SMU Ellipsis, the student body for the School of Computing and Information Systems
- Honorary Finance Secretary of SMU Stereometa, the premier student DJ-ing collective in Singapore

EXPERIENCE

Software Engineer Intern

May 2022 – Aug 2022

Ox Street (Carousell Group)

Singapore

- Ox Street is a streetwear marketplace part of the **Carousell Group**, for new and used sneakers
- Developed a full overhaul of the main web application in NextJS with TypeScript React, working full-stack
- Built a **recommender system** using gathered user events to train a **machine learning model** which recommends similar products that other users like
- Implemented a pipeline for **internationalisation (i18n)**, translation management and automatic routing
- Followed best practices in phased development, writing unit tests and interaction tests with **Storybook**

Data Science Intern

June 2021 – September 2021

Ox Street (Carousell Group)

Singapore

- Implemented conversion tracking and data visualisation with various tools such as Google Analytics, Amplitude, Intercom, Pandas
- Programmed a **price-monitoring service with Flask on Heroku** to gather up-to-date and accurate pricing data, allowing the number of accurate listings on the app to increase by over 100%
- Wrote various Python scripts to automate workflows for catalogue managers

PROJECTS

Rupiks | *Flutter, Dart, C++*

In Progress

- Developed a **cross-platform mobile application in Flutter** to solve a Rubiks Cube based off of camera input from the device with the use of computer vision
- Integrated a **C++ Foreign Function Interface (FFI)** for an algorithm to solve any given cube efficiently

Locus | *Spring, React, Flask, GCP*

August 2021 – November 2021

- Locus is an event-management platform for the new normal - where communities can organise physical events without hassle; which was presented an award by the sponsor, **Credit Suisse**
- Utilised the **Spring MVC Framework** to build various APIs for the management of users & events, with automated vaccination certificate verification using GovTech's OpenAttestation client
- Programmed a **web scraper microservice in Flask** that collects prevailing COVID-19 regulations and event capacity limits from verified sources and feeds the data to the main application

Candour | *Flask, React, Solidity, Truffle*

January 2022 – May 2022

- Candour is a decentralised application meant to allow apparel brands to document the stages of their supply chain on the blockchain in an immutable manner
- Programmed an indexer service to track completed product cycles to be displayed on a product discovery page for users
- Assisted in writing **smart contracts** which could be interacted with via MetaMask on the browser to perform blockchain transactions

TECHNICAL SKILLS

Languages: Java, Python, C, C++, TypeScript, SQL, Dart, HTML/CSS

Frameworks: React, NextJS, Flask, Node.js, Flutter, ExpressJS, Spring

Developer Tools: Git, Docker, AWS, Google Cloud Platform, Heroku, MongoDB, \LaTeX

Libraries: TensorFlow, Keras, pandas, NumPy, matplotlib

Certifications: Oracle Certified Foundations Associate (Java)