

# Omer Wai Yan Oo

[omerbaggia123@gmail.com](mailto:omerbaggia123@gmail.com) | [linkedin.com/in/omerwyo](https://www.linkedin.com/in/omerwyo) | [github.com/omerwyo](https://github.com/omerwyo) | Availability: Jan-May 2023

## 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 rehaul 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
- 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 sneaker pricing data, allowing the number of accurate listings on the app to double
- 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
- 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
- The project was presented an Outstanding Project Award by the sponsor, **Credit Suisse**

### 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 microservice 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)