

# Omer Wai Yan Oo

+65 90090919 | [omerbaggia123@gmail.com](mailto:omerbaggia123@gmail.com) | [linkedin.com/in/omerwyo](https://www.linkedin.com/in/omerwyo) | [github.com/omerwyo](https://github.com/omerwyo)

## EDUCATION

---

### Singapore Management University

Singapore

*Bachelor of Science in Computer Science*

*August 2020 – November 2023*

- Teaching Assistant for Collaborative Software Development (CS203)
- 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
- Finance Head of Project Teung VI, a community service project to teach English and Financial Literacy to Thai youth

## 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 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 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++, SQL (Postgres), TypeScript, Dart, HTML/CSS

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

**Developer Tools:** Git, Docker, AWS, Google Cloud Platform, Heroku, MongoDB, VS Code,  $\text{\LaTeX}$

**Libraries:** TensorFlow, Keras, pandas, NumPy, matplotlib

**Certifications:** Oracle Certified Foundations Associate (Java)