

Omer Wai Yan Oo

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EDUCATION

Singapore Management University

BSc. COMPUTER SCIENCE

Teaching Assistant (TA): Collaborative Software Development

Singapore | Aug 2020 - Nov 2023

WORK EXPERIENCE

OX STREET (CAROUSELL GROUP) | SOFTWARE ENGINEER INTERN

Singapore | May 2022 – Aug 2022

- 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, working full-stack
- Worked on backend services for pricing and category management with Express and TypeScript
- Followed best practices and interaction testing during phased development

OX STREET (CAROUSELL GROUP) | DATA SCIENCE INTERN

Singapore | Jun 2021 - Sep 2021

- Implemented conversion tracking and data visualisation with various tools such as Google Analytics, Amplitude, Intercom, Pandas
- Programmed an internal 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++

- 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

- 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

- 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

SKILLS

Languages: Java, Python, C, C++, SQL (Postgres), TypeScript, Dart

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

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

Libraries: TensorFlow, Keras, pandas, NumPy, matplotlib

Certifications: Oracle Certified Foundations Associate (Java)