

Omer Wai Yan Oo

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

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, System Design, DevOps & Machine Learning
- Honorary Finance Secretary of SMU Stereometa, the premier student DJ-ing collective in Singapore

EXPERIENCE

Quantitative Developer

January 2024 - Present

Qube Research & Technologies

Singapore & Hong Kong

- QRT is a quantitative investment management firm that deploys investment strategies globally, across asset classes
- Realised and productionised systematic strategies which utilise machine learning techniques - improved parameterisation, sped up backtesting and experimentation loops in the process
- Built a tool that allows users to intuitively create and manage compute clusters as well as submit, monitor and scale their computational workloads
- Designed and built various in-house python packages to increase productivity of researchers and quant developers
- Interned within a multi-asset desk from Jan-May 2024 in Hong Kong and in the same team full-time from May 2024 - Present in the Singapore office
- Technologies used: **Python, Pandas, Linux, Ray, various machine learning frameworks**

Research Assistant

Aug 2023 - December 2023

National University of Singapore

Singapore

- Sole developer working on **fine-tuning ML models to process thousands of hours of audio** for Automatic Speech Recognition, Sentiment Analysis, Named Entity Recognition, Pseudonymisation, and Feature Detection
- Supported medical researchers from the School of Medicine at NUS to implement a machine learning pipeline for **Natural Language Processing** on Student volunteers' reflections about their cognitive performance
- Technologies used: **Python, Linux, Pytorch**

Software Engineering Intern

January 2023 - May 2023

Grab

Singapore

- Grab is South East Asia's first decacorn; a super-app which provides users transport, deliveries and payments
- Built an **internal data platform** and associated tooling in the Automated Scalable Insights team
- Led the migration and overhaul **from Express.js to Python FastAPI** for a backend service that **automates and orchestrates various ETL workflows and visualisations** across business verticals
- Built features for data scientists and product leaders to visualise, collaborate and **derive actionable insights from metrics in real-time**, using **Flutter**
- Designed scalable systems using **AWS and Azure services** and contributed to **database design**

Software Engineering Intern

May 2022 – August 2022

Ox Street by 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 **ML recommender system** for similar products based on users' likes and views
- Implemented a pipeline for **internationalisation (i18n)**, translation management and automatic routing

Data Science Intern

June 2021 – October 2021

Ox Street by Carousell Group

Singapore

- Implemented data visualisation, processing and conversion tracking with tools such as **Pandas & Google Analytics**
- 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%

TECHNICAL SKILLS

Languages: Python, Java, C, TypeScript, Golang, SQL, Dart

Frameworks & Libraries: FastAPI, Spring Boot, React, gRPC, Node.js, Tensorflow, Pytorch, pandas, Flutter

Tools: Git, Docker, Postgres, Amazon Web Services, Kubernetes, MongoDB, L^AT_EX