

# Oliver Quarm

SOFTWARE ENGINEER

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## Summary

With a proven track record of adding business value, I am especially proficient in web development, mobile development and data engineering. I have written projects in each of these domains, which are all open-source and available on my GitHub page ([olliequ](#)). I am extremely familiar with command-line tools, git, vim, UNIX-like machines, microservices and cloud technologies (AWS, GCP, Redis etc.). I'm proficient in modern full-stack development technologies (including **React**, **TypeScript**, **Node**, **Next.js**, **XCode**, **Flutter**, **SwiftUI**, **Django**, **Tailwind CSS**, **Docker**, **SQL**, **MongoDB**, **Figma**) and love learning new technologies! My strongest programming languages are **TypeScript**, **Python**, **Dart**, **Swift** and **Java**.

## Education

### The University of Melbourne

Melbourne, Australia

BACHELOR OF SCIENCE, MASTER OF INFORMATION TECHNOLOGY

Mar. 2016 - July. 2023

- Graduated with a **Master of Information Technology** majoring in Computing (2021 - 2023).
- Spent the last semester of my Masters on **exchange** at **UIUC**, one of the best computer science universities in America (2023).
- Completed 1 year of the Master of Chemical Engineering before transferring to the Master of Information Technology (2020).
- Graduated with a **Bachelor of Science** majoring in Chemical Engineering (2016 - 2018).

## Work Experience

### Nakatomi

Sydney, Australia

FULL-STACK DEVELOPER

September. 2023 - Present

- Full-stack development for both web & mobile platforms using a myriad of languages predominantly being TypeScript, Swift, Dart & Python.
- Responsible for building projects from the ground up, and also contributing to mature, long-standing production apps.
- Thriving in a fast-paced, high-demand environment often working on a range of projects at the same time with other developers.

### Contal Services

Brisbane, Australia

FRONTEND ENGINEER

July. 2023 - September. 2023

- Development of front-end components for company products using popular modern technologies (incl. React, Tailwind, JS, HTML, CSS).
- Integration of Figma product designs from design team into working, clean code.
- Worked on automating styling handoff between designer & front-end engineers (myself) drastically improving development efficiency.

## Projects

### Ovum

SWIFT, XCODE, FLUTTER, TYPESCRIPT, PYTHON, AZURE, FIRESTORE, FIREBASE CLOUD FUNCTIONS

- Spearheaded the development of the initial beta of Ovum, an AI-powered personalised health assistant app for women which ended up with hundreds of active users for market validation.
- Solely designed the architecture, selected the tech stack, and built the MVP from scratch.
- Beta version helped secure \$1.6M in funding, following initial investor interest and a \$20,000 pitch competition win.
- Currently developing the production version, liaising directly with stakeholders to align technical delivery with evolving product goals.

### PropertyPanda: Property Listing Web Application

JAVASCRIPT, REACTJS, NEXTJS-13, CSS

- Designed & built a property listing full-stack web application with React (front-end) and NextJS (back-end) with over 1,500 listings.
- Leveraged React to write beautiful UX-focussed front-end components, with a heavy emphasis on CSS styling.
- Implemented MongoDB as a datastore, interacting with my application via NextJS' server props & router navigation.

### Machine Learning Reinforced Trading Bot

PYTHON

- Designed a profitable trading bot that leverages the power of machine learning to autonomously trade cryptocurrencies.
- API data received in real-time, resulting in continuous financial indicator calculation (features for the classifier) and iterative classifier training.
- Executes buy and sell orders within my personal exchange account autonomously on my behalf using an exchange's API.
- Program architecture is designed to be highly customizable such that classifier, feature, label and asset choice are all easily adjustable.

## Extracurricular Activity

### CS@unimelb

Melbourne, Australia

FOUNDER

Jan. 2021 - Present

- I am the founder of an active computer science community at The University of Melbourne titled 'CS@unimelb' with over 1,500 members.
- For the Discord server for this community, I created an open-source Discord bot which now has over 511 commits and 14 contributors.