OSCAR STRACHAN

strachan.oscar@gmail.com | 0468 877 791 | linkedin.com/in/oscar-strachan
github.com/StrachanOscar

Personal Statement

An enthusiastic second-year UNSW Computer Science student with algorithmic problem-solving and backend development experience passionately honed through competitions and personal projects.

Education

University of New South Wales (UNSW)   September 2021 - Present

Bachelor of Computer Science

Courses: Data Structures & Algorithms, Software Engineering Fundamentals, Discrete Mathematics.

Technical Skills

Languages:	C++ | Python | C | Java | MIPS | HTML | CSS | JavaScript | Shell | Bash
Technologies:	Git | Python Libraries (NumPy, pandas) | ReactJS

Projects

Susquehanna International Group Algothon - 3rd Place   July 2022

Python (Numpy, pandas)

• Generated a heatmap matrix from given data using numpy that found correlated financial instruments.
• Implemented a mean reversion algorithm in Python that saw 15% return over new synthetic data.
• Curated a related presentation that received the highest presentation score among all finalists.

Equal Weighted S&P 500 Generator   January 2022

Python (Numpy, pandas, Responses, XlsxWriter)

• Generated an equal-weighted S&P 500 index fund based on a user's desired portfolio value.
• Utilised IEXCloud to make batch API requests that pull market data on the top 500 companies.
• Organised data into a pandas dataframes and formatted an Excel spreadsheet using XlsxWriter.

Personal Portfolio Website   December 2022

HTML & CSS

• Developed a website using the BEM methodology to summarise information relevant to employers.

Leadership

UNSW CompClub   February 2022 - Present

Treasurer

• Curated workshops that taught Python, HTML and CSS to 100+ high school students across Sydney.
• Managed society financials using Microsoft Excel to ensure accurate budgeting and reimbursements.
• Conducted over ten interviews with prospective directorship and mentorship applicants.

Other Experience

Matrix Education   May 2022 – January 2023

Mathematics Teacher & Tutor

• Conducted weekly 1-on-1 tutorials with a 4.7/5 satisfaction rating on Years 7-12 Mathematics.
• Delivered weekly classes with a 4.5/5 satisfaction rating to 100+ students on Years 7-10 Mathematics.
• Developed 100+ pages of resources in Microsoft Word for the Year 3 Matrix Mathematics curriculum.