Maxwell Bruce
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github.com/MWBruce

About

I am a First-Class Honors Computer Science and Commerce graduate from the University of Adelaide. This resume encapsulates my key experiences, awards and skills, yet for a more comprehensive insight and about my professional path, I invite you to visit my professional webpage designed and developed by me at https://mwbruce.github.io/#.

Education

Bachelor of Computer Science (First Class Hons)
The University of Adelaide (December 2024)
Grades (Rounded to one decimal):
- **GPA** 7.0/7.0
- **WAM** 90.5%

Awards

Adelaide Summer Research Scholarship (2023)
The University of Adelaide
The Software Engineering Prize (2023)
The University of Adelaide
Innovative Software Engineering Award (2024)
The University of Adelaide

Experience

Macquarie Group
Associate Software Engineer – Front of Office Trading
2/2025-Present
- Develop and enhance trading software to assist commodities traders utilising technologies such as C++ and Python.

SAAB Australia
Undergraduate Software and Machine Learning Engineer – 0.7 FTE
11/2023 – 1/2025
- Developed and integrated various models using Python and C++ to analyse and model defence systems.
- Utilised various machine learning algorithms including and not limited to Generative Adversarial Networks, Diffusion Models, Convolutional Neural Networks, Transformers and LSTMs.

Australian Institute for Machine Learning
Undergraduate/Intern ML Researcher - 0.4 FTE
04/2023 – 11/2024
- Developed machine learning algorithms under Dr Jinan Zuo allowing me to develop a foundation of machine learning and software engineering knowledge.
- Built an algorithm with a proven ability to have more robust stock latent representations leading to more reliable financial trading activities in unseen environments.

RJC Evans & Co Pty Ltd
Accountant
04/2020 – 04/2023

Community Engagement

Competitive Programming Club
Treasurer (Volunteer)
11/2023 – 12/2024
- Compete in various competitive programming competitions in a team of three.
- Manage the club's financial responsibilities, including cashflows.

Projects

HTML/CSS
- **URL:** https://github.com/MWBruce/MWBruce.github.io (Or web link https://mwbruce.github.io/#).
- **Description:** My professional website outlining all up-to-date projects I am doing and relevant information about me.

TypeScript
- **URL:** https://github.com/MWBruce/Zettlr
- **Description:** My open-source contribution to the Zettlr fixing a feature relating to how references were managed internally.

C++
- **URL:** https://github.com/MWBruce/FinancialModelingPrepWrapper
- **Description:** Developing a wrapper for a popular stock data API to collect users requested data.

Languages

C++, Python, HTML, Java, SQL, JavaScript, CSS, C, TypeScript.

Additionally

Bachelor of Commerce (Accounting and Corporate Finance)
The University of Adelaide