

MAX HARPER



SUMMARY

Aspiring quantitative analyst with a strong foundation quantitative modeling and data-driven decision-making. Proficient in Python and experience with machine learning, cloud computing and automation using AI.

Demonstrated financial experience developing and backtesting trading strategies, optimising portfolios, and supporting investment processes. Passionate about leveraging data and technology to solve challenging problems.

CONTACT DETAILS

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PERSONAL INFORMATION

Year of birth: 2002

Citizenship: Australian and Canadian

SKILLS

- ML and AI
- Python, R, SQL, Excel, Github
- Cloud Computing
- Data Visualisation and Communication
- Backtesting

EDUCATION

- **Sydney Grammar School:** Completed Higher School Certificate (HSC) in 2020, achieving an ATAR of 99.85.
- **University of Sydney:** Currently pursuing a Bachelor of Advanced Computing and Commerce, majoring in Data Science and Business Analytics. Undertaking honours research in 2025.
 - Achieved a High Distinction 86 WAM in Data Science major.
 - **Engineering Entry Undergraduate Scholarship.**
 - **Daylell Scholarship.**
 - **Academic High Honour Roll.**
 - **Dean’s List for Excellence in Academic Performance.**
 - **Discipline of Business Analytics Prize in 3rd Year Quantitative Business Units.**

RELEVANT PROJECTS

- **Investment Process Automation:** Developed a comprehensive GCP system to automate core investment management processes, including the calibration, monitoring, and communication of key risk parameters. Leveraged LLMs to convert unstructured data into structured insights for decision-making and efficient investment governance.
- **Commodity Based Quantitative Trading Strategy:** Created, optimised and back-tested a machine-learning-based trading strategy in the commodities sector at Blue Lake Partners.
- **Machine Learning Betting :** Developed a automated betting program that using machine learning to price betting spreads and inform bets, resulting in a 214% return on investment.
- **Agricultural Commodity Forecasting:** Connected APIs to gather data from 4 different sources and used machine learning to forecast agricultural commodities.

EMPLOYMENT HISTORY

- **Bishopsgate Capital- Quantitative Analyst** **2025.01-Present**
Portfolio optimisation and backtesting of quantitative strategies.
- **Blue Lake Partners - Quantitative Analyst** **2024.05-2024.12**
Backtested and optimised quantitative trading strategies.
- **NJR Partners - Technology Consultant** **2024.02-Present**
Automated investment process systems in the cloud as described above.
- **Fulton Market Group - Data Analyst Intern** **2023.12-2024.02**
Contributed to agricultural commodity price forecasting, as detailed in the project section.
- **Quantium - Data Analyst Intern** **2022.12-2023.02**
Worked in the fast-moving consumer goods division, conducting data investigations and backtesting an analytical model. Gained experience in collaborative teamwork within an agile business environment.
- **Private Tutoring** **2018.02-2024.12**
Operated a private tutoring business providing mathematics help to students in years 10–12.

HOBBIES

- Surfing, Rugby, Tech