

JOSHUA D. GOLAFSHAN

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[Linkedin](#) | [Github](#) | [Portfolio](#)

PROFILE

Strong foundation in mathematics, statistics, and computer science. Proficient in multiple programming languages, with expertise in database management, version control, and algorithmic trading.

EDUCATION

Macquarie University

Mar 2021 - Present

- Bachelor of Science in Mathematics, Minor in Statistics

QuantInsti

Aug 2019 - Mar 2020

- Executive Programme in Algorithmic Trading (EPAT)

TAFE NSW

Mar 2017 - Dec 2017

- Certificate III in Engineering - Technical

EXPERIENCE

Women's Community Shelters

September 2024 - Present

Data Scientist

- Developed a robust regression model to assess the impact of women's shelters on reducing domestic homicides.
- Designed and implemented efficient data pipelines to streamline the analytics and modeling process, allowing for periodic updates with new data.

PROJECTS

Arbitrage Betting Software

Python

Scans Australian Bookmakers for Differing Odds

- Developed a low-latency (14 ms) sport arbitrage software across 10 Australian bookmakers applying web scraping and API integration techniques.
- Built a web interface to display real-time arbitrage opportunities to users.

Wall Street Social

Python

AI-Driven Social Media Analysis for Stock Market Insights

- Implemented a Named Entity Recognition (NER) algorithm to accurately extract stock symbols and option contracts from social media content.
- Utilized SQLite for efficient storage and retrieval of comments, enabling comprehensive analytics and in-depth statistical analysis.
- Conducted comprehensive mention analysis using Pandas, uncovering trends and insights related to stock market movements through data mining and statistical analysis.

TECHNICAL SKILLS

Languages	Python, Java, MATLAB, R
Databases	SQL (PostgreSQL, MySQL, SQLite3)
Tools	GitHub, Microsoft Suite
Frameworks	Flask, Pandas

REFERENCES

References are available on request