

JOSHUA D. GOLAFSHAN

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

PROFILE

Strong foundation in *mathematics, statistics, and computer science*. Proficient in multiple programming languages (*Python, R and Java*), with expertise in database management, version control.

EDUCATION

Macquarie University

Mar 2021 - ETC, July 2025

- 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

August 2024 - ETC, November 2024

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.
- Built and deployed an interactive dashboard to visualize and showcase model performance and key metrics.
- Presented data-driven insights and findings to stakeholders.

Fiverr

November 2021 - Present

Contracted Developer

Online

- Managed and maintained strong relationships with multiple recurring clients, ensuring consistent project satisfaction.
- Delivered high-quality development services, offering strategic input throughout the development process.
- Collaborated effectively across time zones to ensure timely project completion.

Prime Steel Detailers

May 2017 - January 2021

Draftsman & Programmer

St Marys, NSW

- Streamlined departmental workflows by designing and automating code, ensuring high accuracy and consistency in deliverables.
- Proactively identified and resolved potential structural issues, reducing project delays.
- Delivered high-quality work aligned with specifications and project timelines, maintaining consistent performance across all tasks.

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.

VOLUNTEER EXPERIENCE

Global Leadership Program - Gained exposure to international perspectives on leadership, global challenges, and cross-cultural collaboration. Developed key leadership and problem-solving skills through workshops, seminars.

Mathematics and Statistics Society (MASS) - Actively involved in the Mathematics and Statistics Society, contributing to discussions and events that promote the advancement of mathematical and statistical knowledge.

Youth Mentorship - Providing ongoing mentorship to a youth in the community, supporting their academic development and personal growth. Through consistent guidance and encouragement, helping the mentee overcome challenges, build confidence, and achieve their goals.

ACHIEVEMENTS

Published a blog post on QuantInsti's website: [PC Hardware Components Simplified](#)

Participated in a 4-day statistical competition hosted by Macquarie University.

Competed in an Integration Bee hosted by Macquarie University.

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