

JOSHUA D. GOLAFSHAN

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

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ABOUT

Seasoned professional with a strong foundation in mathematics, statistics, and computer science. Proficient in Python, Java, MATLAB, and R, with expertise in database management, version control (GitHub), and algorithmic trading.

EDUCATION

Macquarie University

Mar 2021 - Present

- Bachelor of Science in Mathematics,

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 predictive model to analyze the impact of shelters on reducing domestic violence and related fatalities.
- Designed and implemented data pipelines to support modeling and reporting processes.
- Communicated findings and insights effectively 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 different time zones to ensure timely project completion and success.

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 optimized processes to boost efficiency and improve project outcomes.

PROJECTS

Arbitrage Betting Software

Python

Scans Australian Bookmakers for Differing Odds

- Developed low-latency arbitrage software with a 14-millisecond response time, optimizing betting strategies across 10 Australian bookmakers.
- Designed and implemented a web interface to display real-time arbitrage opportunities, enhancing user decision-making.

Supply Chain Management System

Python

Comprehensive Software Suite for Administrative and Floor Workers

- Developed a web scraper for restocking and price verification, automating routine tasks and improving efficiency.
- Integrated Flask with MySQL to create a seamless backend for managing supply chain operations.

Wall Street Social

Python

AI-Driven Social Media Analysis for Stock Market Insights

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

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 |