Joshua D. Golafshan

Quantitative developer skilled in Python, statistical modeling, and real-time trading systems.

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LinkedIn | GitHub | Portfolio

EDUCATION

Macquarie University Mar 2021 – Jul 2025
BSc in Mathematics, Minor in Statistics
Relevant Coursework: PDEs, ODEs, Numerical Methods, Linear Algebra, Probability, Statistics

QuantInsti Aug 2019 – Mar 2020
Algorithmic Trading Certification
Relevant Coursework: Backtesting, Strategy Development, Derivatives, Live Infrastructure

TAFE NSW Mar 2017 – Dec 2017
Certificate III in Engineering - Technical

TECHNICAL SKILLS

Programming Languages	Python	Java	SQL	MATLAB	R Programming
Frameworks	Flask	Streamlit	MySQL	SQLite3	
Tools	Git	LaTeX	Microsoft Suite		
Libraries	Pandas	NumPy			

EXPERIENCE

Independent Developer – Technical Consultant / Developer Nov 2021 – Present

- Achieved 70% client retention through strong communication and reliable delivery.
- Translated briefs into actionable milestones, bridging technical gaps with clients.
- Maintained international clients by overcoming time zones and language barriers.

Women's Community Shelters (Placement) – Data Scientist Aug 2024 – Nov 2024

- Modeled the impact of women's shelters on homicide rates using a zero-inflated gamma model across all NSW LGAs from 1995 to 2024.
- Merged multi-external data sets into a unified data-set (BOCSAR, SEIFA, Shelter Data, Aboriginal population stats).
- Collaborated with government agencies (ABS, Homes NSW) to source vital data.
- Scraped and parsed shelter data with custom Python scripts.
- Presented final results using R Quarto and oral presentation to stakeholders.

PROJECTS

Financial Analysis Dashboard Live Demo
Technologies: *Python, Streamlit, MongoDB*

- Developed an interactive dashboard for analyzing financial instruments using the Yahoo Finance API, attracting over 200 views.
- Implemented a Black-Scholes pricing model and Monte Carlo simulations for risk modeling.
- Used MongoDB to manage user activity and historic usage.

REFERENCES

Available upon request.