Joshua D. Golafshan

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EDUCATION

GARP Financial Risk Manager (FRM) — *Level 1 Candidate*   Nov 2025 – Present
Relevant Coursework: Credit Risk, Risk Management, Compliance and Governance

Macquarie University — *BSc in Mathematics (Minor: Statistics)*   Mar 2021 – Jul 2025
Relevant Coursework: PDEs, ODEs, Linear Algebra, Probability, Statistics

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

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

TECHNICAL SKILLS

Programming:	Python	SQL	R	
Frameworks:	Flask	Streamlit	MySQL	SQLite	MongoDB
Tools:	Git	LaTeX	Linux	Power BI
Techniques:	Statistical Modeling	Web Scraping	Data Cleaning	APIs

EXPERIENCE

Freelance — Solutions Engineer   Nov 2021 – Nov 2025

- Achieved a 70% client retention rate by managing end-to-end delivery of client engagements, coordinating requirements, timelines, documentation, and stakeholder communication to ensure accurate, on-time outcomes.

- Translated high-level client requirements into technical specifications, bridging non-technical and technical stakeholders across multiple concurrent client projects.

- Led international projects, collaborating with clients and development teams across multiple time zones and 5 continents.

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

- Estimated the relationship between shelter accessibility and homicide rates across 128 NSW LGAs from 1995–2024 with controls for socioeconomic and demographic variables.

- Constructed a multi-source analytical dataset combining 6 external and internal sources, spanning 30 years and 100k+ rows with LGA-level geographic alignment

- Reduced data preparation time by 30% by developing automated ingestion and preprocessing pipelines, including web scraping and data validation.

- Produced reproducible statistical reports and visual diagnostics using R Quarto, communicating model results, inference, and robustness checks to stakeholders.

Prime Steel Detailers — Draftperson   May 2017 – Jan 2021

- Analysed drafting workflows and implemented process improvements, increased drafting efficiency by 20–50% depending on member type.

- Reviewed 20,000 + drafting, engineering and architectural drawings, proactively identifying and escalating technical issues prior to fabrication.

- Recorded, organised and indexed member names in drawing documents, so that they could be easily found without checking each drawing.

PROJECTS

Financial Analysis Dashboard   Explore the platform: omniquant.streamlit.app/
Technologies: *Python, NumPy, Pandas, SciPy, Streamlit*

- Built an interactive analytics dashboard integrating market data ingestion via Yahoo Finance API, supporting real-time portfolio monitoring and risk diagnostics for 200+ users.

- Designed a portfolio risk and performance engine, computing VaR, CVaR, volatility.

- Implemented Black–Scholes option pricing and Monte Carlo simulation frameworks for derivative valuation and scenario analysis.