

EDUCATION

Bond University

B. Actuarial Science, Major in Finance

Gold Coast, QLD

Feb 2022 - May 2024

- 75% Major WAM, Investment Group, Actuarial Society, Actuaries Institute Completion: CS, CM, CB
- Coursework: Mathematical Statistics, Stochastic Processes, Econometrics, Finance Mathematics, Portfolio Analysis, Survival Analysis, Risk Management, Financial Models, Game Theory, Survival Analysis

Academy of Interactive Technology

Diploma of Full Stack Development

- 78% WAM, Developed a password manager and a real estate portfolio management tool, showcasing strong problem-solving skills and industry-standard security practices.

WORK & EXPERIENCE

Nabla

President

Gold Coast, QLD

Feb 2023 - May 2024

- Founded the Quantitative Finance Society to meet demand for quantitative investment analysis; onboarded a dedicated team to drive objectives and promote growth.
- Developed a heat map for option strike prices using Python and C++ to create an interactive, engaging dashboard for members.
- Tested the hypothesis that trading based on technical indicators lacks merit, employing machine learning to analyze effectiveness in generating alpha.

Sitesec

Systems Engineer

Gold Coast, QLD

Nov 2022 - Jul 2023

- Managed databases and ensured data integrity, accuracy, and availability for stakeholders.
- Leveraged data analytical techniques to map and plan construction projects, optimizing resource allocation and project timelines.
- Worked with senior devs on convolutional neural networks (CNNs) to identify security risks at a 20% higher rate.

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Software Development Intern

Brisbane, QLD

Jan 2021 - May 2021

- Developed a micro interest-earning system with visual representations to encourage saving habits.
- Gained exposure to development of explosion mapping software for an international mining project.

QUANTITATIVE RESEARCH PROJECTS

- Exploring the development of a predictive model for market volatility using ridge regression, leveraging historical stock prices and financial indicators. With the goal of benchmarking the model's performance against traditional volatility models like GARCH.
- Investigating the application of LASSO regression to identify key predictors of stock price movements from a comprehensive dataset of financial indicators.

SKILLS

Languages

🐍 Python, 📊 R, 🏠 C++, 📄 JS HTML/CSS/JS, 📄 TypeScript, 🏠 AWS, 📄 Ruby

Data

📊 Pandas, 📊 Scikit, 📊 Plotly, 📊 seaborn, 🔥 PyTorch, 📊 Node/React/Next

ADDITIONAL INFO

Interests

Acting, Gastronomy, Guitar, Piano, Tennis, NFL, NBA, Music, Fashion, Gaming

Volunteering

Certificate in Active Volunteering (III), Litter Drive, Tennis Coach, Tutoring