

Mark Ghaby

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Education

Macquarie University, Sydney, NSW

Bachelor of Engineering (Honours), Software Engineering

July 2021 - Current

Coder Academy, Sydney, NSW

Diploma of Information Technology, Full-Stack Web Development

August 2020 - March 2021

Projects

Distributed-Scheduler

- Client-side is built-in Java upon an existing server model
- Implementations of First Capable (FC) & All to Largest (ATL) Scheduling Algorithms
- Utilise socket programming to communicate with existing server model that is pre-compiled and built-in C
- Optimised using event-based programming queues to not overload systems even when a large number of jobs require scheduling
- [View Here](#)

Portfolio-Website

- Built-in React.js and deployed using Netlify
- Created to be a static portfolio website displaying front-end development skills and further information about myself
- Designed in modern singular scrolling page format with an emphasis on responsive design and light/dark mode
- [View Here](#)

MQ2024COMP3310/comp3310-group-project-wehatecoding

- Built-in Python Flask upon a provided skeleton
- Created to improve the security of an existing web application
- Identified vulnerabilities through tools like CodeQL and manual analysis
- Rectified all identified vulnerabilities as well as adding new user functionality with a security focus
- Implemented authentication functionality utilising third-party libraries
- Collaborated with group members on the final product upholding industry Git practices
- [View Here](#)

Professional Experience

MQL5 Freelance Programming

Software Engineer

October 2023 - Current

- Collaborated closely with clients regarding the implementation of their Foreign Exchange trading strategies, resulting in algorithms built according to client specifications
- Eliminated 100% of manual checks Moving Average Convergence Divergence, and increased realisation of positions by 33%
- Eliminated 100% of manual intervention for partial position closures in active trades
- Ongoing client-developer relationship involves continued development of current and new algorithms

Technical Skills

- | | | | |
|------------------------|------------|------------|--------------|
| • Command Line | • Git | • HTML/CSS | • JavaScript |
| • SQL | • React.js | • Node.js | • Java |
| • Software Engineering | • C | • Python | • Agile |
| • AWS S3 | • MQL5 | • Solidity | • Flask |

References

Available upon request