Jake Lyell

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Computer Science and Data Science student with fundamental knowledge of software design and development. Committed to working as a collaborative and positive team member, striving to utilize my knowledge and expertise for optimal results. Possesses the analytical, technical, and programming skills required to thrive as a Software Engineer.

Education

University of Western Australia *Perth*
Bachelor of Science, Double Major in Computer Science and Data Science *Feb 2019 – Jun 2022*
   GPA: 5.636 | WAM: 71

Work Experience

St Vincent de Paul WA *Perth*
Web Developer *Nov 2021 – Present*
- Developing a new intranet system for Vinnies WA. To be used across 52 stores, warehouse depos, and head office staff. This private site hosts all internal documents, templates and forms for Vinnies WA, and is to be used by hundreds of staff and volunteers.
- Working to meet client deadlines.
- Creating a consistent look and feel across the website by enforcing uniform formatting and layout.
- Trained employees on how to use the new site efficiently.

QFin UWA *UWA, Perth*
Executive Director of Trading *Dec 2021 – Present*
- Creating and running projects for 2022's Quantitative Finance Trading Team. These projects are focused around core mathematical and algorithmic theories.
- Organizing and running trading-based events and workshops. Including a Hackathon for other Computer Science students to participate in an Algorithmic Trading Competition.
- Building a website and an algorithm back testing framework for use by QFin.

Coders for Causes UWA *UWA, Perth*
Volunteer Web Developer *Nov 2021 – Present*
- Creating a Responsive Vue.js Web Application for WAIS to help visualize the performance of pole vaulters in training.
- Working closely with our client to ensure a satisfactory product is delivered.
- Participating effectively in the team-based environment. Working closely with my team members to complete GitHub issues

Projects

Visualizing Crime Data for WA Police Force *Python, Pandas, PyQt5, GIS*
Created an interactive Python application for the Data Science and Analytics Division of the WA Police Force to visualize crime data trends on an interactive heat map of Western Australia. Performed a team leadership role, ensuring that deliverables were completed on time, and team resources were managed effectively.

Momentum Trading Algorithm *Python, TA-Lib, Pandas*
Created a set of Python algorithms to trade cryptocurrencies, based around the Quantitative Trading strategy of "Momentum Trading". Performed significant testing to determine the best combination of algorithm and parameters to produce a consistently well performing algorithm.

QFin Organization Website *React.js, HTML, CSS, JavaScript*
Creating a React.js Web Application to showcase the QFin UWA Club. The site features past and future projects and events. The site also showcases the Exec Team and our Sponsors *qfinuwa.com*

Skills

Programming Languages: Python, JavaScript, HTML, CSS, Java
Frameworks and Libraries: Pandas, NumPy, React.js, Vue.js
Software: Git/GitHub, Linux, Visual Studio Code, Docker
Relevent Coursework: Project Management, Organisational Behaviour, Machine Learning, Agile Development