DAVID WANG

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EDUCATION

University of Waterloo   **Waterloo, ON**
Honours Bachelor of Computer Science   2018 – 2023
- Relevant Coursework: User Interface, Algorithms, Data Structures & Data Management, Object-Oriented Software Development, Statistics

Wilfrid Laurier University   **Waterloo, ON**
Honours Bachelor of Business Administration, Concentration in Finance   2018 – 2023

WORK EXPERIENCE

Perpetua   **Toronto, USA**
Forward Deployed Software Engineer   Sept 2022 – Dec 2022
- Built new visualizations for user sales and ad data for Amazon Ads and TikTok Spark Ads.
- Consulted with clients to research, plan, and prototype features for new Google Ads product. Implemented new components (JavaScript, React), endpoints and models (Python, Django), views (Google Big Query), and queries (SQL) as part of the project.
- Developed new queries in SQL that reduced run times by 50% in the most commonly used scenarios.

The Block   **New York, USA**
Data Engineer   May 2022 – Jun 2022
- Worked on the Data Research team to create 3 new table definitions in Google Big Query and run SQL queries on different Ethereum asset databases. Ran data validation on table definition to check quality of data.
- Wrote weekly data newsletter that was sent to 200K subscribers.

The Block   **New York, USA**
Research Analyst   Jan 2022 – May 2022
- Produced 16 due diligence reports for clients as part of digital assets team.
- Analyzed smart contracts for security measures and to determine intended behaviors and suspicious admin privileges. Found 3 high-risk implementations and flagged to exchanges.

Ada   **Toronto, ON**
Software Engineer   Jan 2021 – May 2021
- Developed new components and views in dashboard to help client build their automated chat bot.
- Worked in JavaScript, React, and Redux to implement new quick reply block and deletion of variables. Improved stability of the dashboard by 20%.
- Reduced tech debt by 10% by fixing various parts of dashboard, including not allowing the creation of new answers from suggestions page.

PROJECTS

Backtest, *Python*   Feb. 2022 – Mar. 2022
- Set up a back-testing tool using Backtrader Python framework to recognize trade patterns and simulate trading results. Ran back-testing results for different indicators.
- Results were exported to QuantStats, which calculated and displayed analytics on results, including time in market, max drawdown, and Sharpe Ratio. Integrated with a broker to facilitate live trading.

SKILLS

Technical Skills: Python, SQL, JavaScript/React, C++, C
Certificates: Bloomberg Market Concepts
Awards: Bronze Duke of Edinburgh, Top Academic Power Pilot, Glider Pilot Scholarship
Interests: Financial Markets, Crypto, Swimming, Hockey, Basketball