# DAVID WANG

5A Computer Science & Business Double Degree, University of Waterloo

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EDUCATION

University of Waterloo, **Honours Bachelor of Computer Science**   Sept 2018 – Dec 2023
Coursework: Computer Architecture, Algorithms, Numerical Computation, Operating Systems, Data Structures

Wilfrid Laurier University, **Honours Bachelor of Business Administration (Finance)**   Sept 2018 – Dec 2023
Coursework: Securities Trading, Investment Management, Financial Markets, Options & Futures

WORK EXPERIENCE

Perpetua, **Software Engineer Intern**   Sept 2022 – Dec 2022

- Engineered Google Ads product for launching ad campaigns from Amazon and TikTok Spark Ads that scaled to $200K in ARR.
- Improved retrieval times by 200% by implementing new local Django models for brands, orders, and campaign objects.
- Enhanced Python sync functions runtime by 400% by reducing the number of calls made to Django objects.
- Implemented SQL query with parameters to dynamically generate 95% of arbitrary customer performance data requests.
- Developed query and React flows to generate potential opportunities and launch 40% of new campaigns with 1-click.

The Block, **Data Engineer Intern**   May 2022 – Jun 2022

- Created 5+ new custom tables using Google Big Query and SQL queries for institutional clients and research team.
- Improved performance of data validation scripts by 50% by reducing the number of REST API to public datasets.
- Contributed to open-source digital asset databases to expand data availability to 94% of the top 500 digital assets.
- Wrote weekly data newsletter to 200K subscribers about noteworthy data metrics and offer justification for changes.

The Block, **Research Analyst Intern**   Jan 2022 – May 2022

- Leveraged blockchain explorers to produce sixteen due diligence reports for clients as part of digital assets team.
- Discovered three high-risk security concerns that used suspicious smart contract admin privilege implementations.

Ada, **Software Engineer Intern**   Jan 2021 – May 2021

- Developed 3 new quick reply and suggestions React components that reduced chat bot creation times by 15%.
- Enhanced Redux state logic by introducing 9 new actions and reducers that facilitated the creation of 3 new dashboard blocks.
- Improved stability of the dashboard by 20% by deprecating redundant JavaScript functions and refactoring Redux reducers.

PROJECTS

Backtest, Python

- Back-testing tool using Yahoo Finance API, Backtrader, and QuantStats libraries to analyze different technical indicators and simulate historical trading results. Trading outperformed S&P 500 by 30% over the previous 5 years.

SKILLS

Languages: Python, SQL, JavaScript/TypeScript, C++, C
Technologies: Django, NumPy, Pandas, React, Redux
Tools: GraphQL, Git, Docker, Google Big Query, Google Cloud, Jupyter