Jason **Huang**

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❯ SKILLS

BACK END: Python, C, C++, Django, SQL
FRONT END: JavaScript, React, Redux, HTML, CSS, Bootstrap
DATA ANALYSIS: pandas, NumPy, scikit-learn, Dash, Matplotlib
MISC: Bash, Fluent French, Public speaking, Design thinking

❯ EDUCATION

University of Waterloo — Fall 2018 to Present
B. Computer Science, Spec. in Human-Computer Interaction
CS Major Average: 89.86
Term Dean's Honours List: Winter 2019, Spring 2020
Coursework: Algorithms, Data Structures, OOP (C++)

❯ EMPLOYMENT

Wish · **Software Engineer Intern** · San Francisco, CA
- Incoming Software Engineer Intern – Marketplace & Logistics team (Summer 2021)

Sourced Fact · **Software Engineer (Contract)** · Remote — Dec. 2020 to Present
- Revamped the UX by creating customizable UI components with **React**, **Flux** and **JavaScript** to let users seamlessly fact check online articles
- Streamlined the software development process by refactoring existing React components and Flux stores to greatly improve reusability, scalability and maintainability

CPP Investment Board · **Quantitative Models Intern** · Toronto, ON — Sept. 2020 to Dec. 2020
- Managed the allocation of $400+ billion in CPP funds by modelling key portfolio metrics using **graph theory**, **linear algebra**, and **data manipulation** techniques with **Python**, **pandas** and **NumPy**
- Enhanced the scalability of quant tools by redesigning algorithms to reduce runtime/space and modularizing code to increase cohesion
- Researched the efficacy of various **NLP models (TF–IDF, GloVe, BERT)** in extracting valuable insights from news articles and pitched the most effective option in achieving department goals
- Performed in-depth data exploration using **principal component analysis**, **LDA topic modelling** and **k-means clustering** to refine ML models and effectively communicated findings to a non-technical audience

CPP Investment Board · **Python Engineering Intern** · Toronto, ON — Jan. 2020 to Apr. 2020
- Developed a data analytics platform using **Python**, **pandas** and **SQL** to detect trends and outliers across millions of data and ensure clean and correct inputs to crucial investment processes
- Significantly improved the reusability of all department-wide data engineering tools by introducing and implementing an **in-house data structure** to normalize different datasets into a uniform structure

Worldsource Wealth Management Inc. · **Junior Software Engineer** · Markham, ON — May 2019 to Aug. 2019
- Developed a web application using **Django**, **Python** and **SQL Server** to facilitate succession planning between financial advisors
- Designed an algorithm using Python to match advisors based on profile, book of business, and clientele compatibility
- Created two calculator applications using **React**, **Redux,** Chart.js and **Firebase** to measure the cost and suitability of an investor's portfolio
- Researched, documented, and successfully pitched three investment tools to industry leaders and potential clients to help the company grow and retain its assets by collaborating with a team of senior executives

❯ PROJECTS

STEMSearch: Intelligent Research Assistant — Mar. 2020
- Used **Dash** to create an intelligent academic paper recommender based on titles and abstracts with an interactive COVID-19 dashboard
- Refined **NLP machine learning model** parameters by analyzing millions of text data from arXiv and CORD-19 using **pandas** and **NumPy**
- Implemented **k-means clustering**, **TF–IDF** and **cosine similarity** with scikit-learn to recommend similar articles and extract key terms

FYOUZE: Social Media Fuse – Hack The North 2019 — Sept. 2019
- Developed an application with Python, Selenium, Flask and various social media APIs to seamlessly consolidate users' social media channels
- Enhanced UI/UX using HTML, CSS, Bootstrap, and JavaScript

WeHack: Hackathon Networking Platform – EngHack 2019 — June 2019
- Conceptualized and developed a web-based hackathon portal application using a **design thinking** approach and **Django** implementation

❯ LEADERSHIP

Vice President · Waterloo Debate Society — Aug. 2019 to Aug. 2020
- Coached university-level debaters in argumentation, critical analysis, presentation and more through weekly workshops
- Organized tournaments to engage high school/university students across North America in meaningful discussions on current global issues