Jason **Huang**

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▶ SKILLS

LANGUAGES: C/C++, Python, JavaScript, JSX, HTML5, CSS3, Scheme (Racket), Turing, SQL
TOOLS & FRAMEWORKS: pandas, NumPy, Django, React, Redux, Bootstrap, Git, Dash, SQL Server, Linux
MISC: Fluent French, Basic Mandarin (oral), Public speaking, Design thinking

▶ EDUCATION

University of Waterloo
Fall 2018 to Present
Candidate for Bachelor of Computer Science
Dean's Honours List 1B

▶ EMPLOYMENT

Python Engineer Intern, Quantitative Strategies & Risk Premia
Jan. 2020 to Apr. 2020
Canada Pension Plan Investment Board · Toronto, ON
- Analyzed **daily trends** and **anomalies** across **millions of data** by developing **data validation tools** using **pandas**, **NumPy** and **SQL**
- Drastically **improved scalability of data-driven tools** using metadata classes to **manipulate** and **normalize department-wide datasets**
- Redesigned **data analysis projects** to **increase efficiency** and **broaden applicability** of the tools by **automating functionalities** and updating compatibility across data sources

Full Stack Developer, Junior Business Analyst
May 2019 to Aug. 2019
Worldsource Wealth Management Inc. (WWM) · Markham, ON
- 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 calculators with **React** and **Redux** 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 WWM grow and retain its assets by collaborating with a team of senior executives

▶ PROJECTS

STEMSearch: Intelligent Research Assistant
Mar. 2020 to Apr. 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

READy: Book Recommendation Engine
Mar. 2020
- Designed a **machine learning recommendation engine** using user-based **collaborative filtering** to recommend books to users
- Implemented a **matrix factorization model** in **Python** to predict the suitability of a book for a user

FYOUZE: Social Media Consolidator – Hack The North 2019
Sept. 2019
- Developed a **web application** using **Python** with **Selenium**, **Flask** and various **social media APIs** which automatically connects users on numerous social media channels
- **Enhanced UI/UX** using **HTML**, **CSS**, **Bootstrap**, and **JavaScript**

Investment Portfolio Manager
July 2019 to Present
- Created a web application using **React**, **Redux** and **Firebase Realtime Database** to compute and compare the costs of a mutual fund portfolio
- **Designed an algorithm using JavaScript** to determine the suitability of a portfolio based on an investor's objectives and risk tolerance

WeHack: Hackathon Networking Platform – EngHack 2019
June 2019
- Conceptualized and built a web-based hackathon portal application using a **design thinking** approach: wehack.herokuapp.com
- Used **Django** to develop the application with **authentication**, **SMS notification**, and **search** functionalities

▶ LEADERSHIP

Vice President · Waterloo Debate Society
Aug. 2019 to Present
- Delivered impactful weekly lessons to coach university-level debaters in argumentation, critical analysis, presentation and more
- Set meaningful debate topics during practices to encourage critical thinking on current global issues
- Organized tournaments and workshops to engage and educate high school and university students across Canada

▶ AWARDS

1st Place Winner – National High School Business Conference Innovation Challenge — June 2018

Student of Excellence Award 2017/2018 – White Oaks Secondary School — Jan. 2018

Associate Diploma of the Royal Conservatory of Music (ARCT) for Piano Performance — June 2016