

# Brendan Zhang

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## Summary of Qualifications

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- **Self-motivated and quick learner:** Took initiative by self-teaching Python, JavaScript and SQL
- **Problem solving skills:** Tackled complex problems with simple solutions and a holistic mindset
- **Analytical skills:** Used tools such as Excel, Matplotlib and Pandas to analyze large amounts of data
- **Interpersonal skills:** Worked with others to lead clubs, compete in Hackathons and run events

## Technical Skills

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**Proficient:** Python • JavaScript • Node.js • HTML • SQL • C • MS Excel • Unix/Shell Scripting • Git

**Familiar:** React.js • C++ • Java • VBA • Racket • Typescript

## Projects

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**Marmosad**, Collaborative Side Project [[marmosad.me](https://marmosad.me)] Aug. 2018

- A **JavaScript** application server that simulates a Waterloo-themed Cards Against Humanity game
- Front-end built with **Angular 5** using **Typescript** and **Express** to handle **RESTful** API calls
- Back-end built with **Node** using **Typescript** and **Socket.io** for front-end communication

**MarketBuddy**, Side Project Aug. 2018

- A **Python** based application that calculates portfolio beta for hedging and predicts future stock prices
- Parsed financial information with **Pandas Datareader** and analyzed data with **Matplotlib** and **NumPy**
- Developed with **Keras** to train a **LSTM neural network** to predict stock prices for the S&P 500

**Depicturself**, Hack the Valley II Feb. 2018

- A **JavaScript** based web application that generates captions based on facial features
- Built front-end using **React.js** alongside Microsoft Face API
- Integrated back-end with **Python** and Indico Machine Learning API to generate captions

## Experience

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**Summer Intern**, Scotiabank Capital Markets Stress Testing May 2018 – Aug. 2018

- Built a **Java** based process in **Activiti** that automated the calculation of Counterparty Credit Risk metrics from trade data by executing a series of **Bash** Scripts, **SQL** Queries, and **Python** scripts
- Organized, matched and grouped over a million trades using **Oracle SQL**, **Bash**, and **Pandas**
- Automated the process with **Activiti** and generated an easy-to-follow graphical representation of the workflow using **Business Process Model and Notation** and **Gitit**

**Research Analyst**, University of Waterloo Finance Association Jan. 2018 – Present

- Performed in-depth qualitative (industry, management) and quantitative (DCF, Comps) analysis on the publicly-traded company Ciena to create a stock pitch
- Created lessons for new members to learn crucial finance-related skills such as how to proficiently use Microsoft Excel and how to manage personal finances

**Treasurer**, Chess in the Library Jun. 2015 – Jun. 2017

- Managed the organization's finances and inventory, drafted budgets, and organized tournaments
- Contacted sponsors (i.e. Cool Chess) which enabled the organization to scale-up operations by 25%

## Education

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**University of Waterloo** Sep. 2017 – Present

Bachelor of Computing and Financial Management, Honours Co-op, Class of 2022