

# Jason Tang

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## Professional Experience

### Software Developer Intern

Royal Bank of Canada - Amplify Team

May 2020 - August 2020

Toronto, Canada

- Developed a proof of concept cost analytics dashboard with React.js and Node.js that identifies cost drivers in real time, empowering business leaders with actionable insights to manage costs more efficiently.
- Reduced monthly expense forecast errors by 11.7% through utilizing aggregated real time cost data in time series models to identify cost patterns, thus allowing executives to pinpoint cost optimization opportunities.
- Pitched the project to top level business executives and hundreds of RBC employees, attaining a position as the top internal team (out of 9 internal solutions) at the final project showcase exhibition.
- **Technologies Used:** SQL, NoSQL, Python, PyTorch, Flask.

### Software Engineering Intern

University of Toronto Information Technology Services

May 2019 - August 2019

Toronto, Canada

- Piloted a real time recommendation engine for undergraduate course enrollment by utilizing historical student data and implementing collaborative filtering and content based recommendation techniques.
- Deployed containerized models to Azure and developed web applications which provide a UI for the predictions.
- Automated job pay-band classification by optimizing Natural Language Processing models on past assessment records, reducing job evaluation time from the scale of weeks to days.
- **Technologies Used:** Python, JavaScript, Node.js, Azure, Keras, PyTorch.

### Junior Developer

Sitewide Solutions

January 2019 - May 2019

Toronto, Canada

- Redesigned frontend ReactJS components to be mobile friendly, and engineered backend components to track assigned tasks in a web application for enhancing communication between site personnel.
- **Technologies Used:** C#, JavaScript, ASP .NET Core, ReactJS, Agile.

## Experience

### Teaching Assistant

University of Toronto - CSC148: Introduction to Computer Science

Extracurricular

- Instructed and mentored 30+ undergraduate students by delivering teaching and assessment activities.

### A3C

Reinforcement Learning Project

Personal Project

- Implemented the Asynchronous Advantage Actor Critic (A3C) paper in PyTorch, utilizing parallel processing and asynchronous updates to efficiently train an agent to play the classic Atari game Space Invaders.

## Education

### University of Toronto St. George

Candidate for Honours Bachelors of Science

Computer Science Major with Mathematics and Statistics Minors

Expected May 2021

cGPA 3.81/4.00

## Skills

**Languages** Python, Java, SQL, JavaScript, C.

**Frameworks** Flask, ReactJS, PyTorch, Keras.

**Tools** Git, Unix, Bash, Android, Azure.