Jason Tang

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Professional Experience

Software Developer Intern — May 2020 - August 2020
Royal Bank of Canada — *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 — May 2019 - August 2019
University of Toronto Information Technology Services — *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 — January 2019 - May 2019
Sitewide Solutions — *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

Undergraduate Researcher — September 2020 - Present
University of Toronto - Robot Vision and Learning Lab — *Toronto, Canada*

- Exploring new approaches for performing task identification and boundary inference within the area of life-long continual learning for model based Reinforcement Learning problems.

Teaching Assistant — January 2020 - April 2020
University of Toronto - CSC148: Introduction to Computer Science — *Toronto, Canada*

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

Education

University of Toronto St. George — Expected May 2021
Candidate for Honours Bachelors of Science — *cGPA 3.81/4.00*
Computer Science Major with Mathematics and Statistics Minors

Skills

Languages	Python, Java, SQL, JavaScript, C.
Frameworks	Flask, ReactJS, PyTorch, Keras.
Tools	Git, Unix, Bash, Android, Azure.