

Jason Tang

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Experience

Machine Learning Intern

University of Toronto Information Technology Services

May 2019 - August 2019

Toronto, Canada

- Piloted a real time **recommendation engine** for undergraduate course enrollment with an AUC score of **0.977** (max 1.0), by utilizing **collaborative filtering** on academic history and user preferences.
- Automated job pay-band classification by optimizing **Natural Language Processing** models on historical assessment records, reducing evaluation time from the scale of weeks to days.
- Eliminated further data acquisition costs by creating **synthetic datasets** for model development.
- Transformed raw data for use in automated learning applications by building data ingestion pipelines in **Azure**.
- **Technologies Used:** Python, Keras, PyTorch, Flask, Azure.

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 streamlining HR management.
- **Technologies Used:** C#, JavaScript, ASP .NET Core, ReactJS, Agile.

Projects

2 Armed Bandits

Technical Blog

Personal Project

- Communicated core concepts in **Reinforcement Learning** concisely by authoring an introductory level technical blog in **Jekyll**, utilizing **Google Analytics** for tracking traffic.

NumGen

Generative Adversarial Network

Personal Project

- Generated realistic handwritten numbers by optimizing an **adversarial network** in **TensorFlow**.

Rainy

Computer Vision Network

Personal Project

- Classified presence of rain in images with **95.8%** accuracy by training a **ResNet** network in **PyTorch**.

Education

University of Toronto St. George

Candidate for Honours Bachelors of Science

Computer Science Major with Mathematics Minor

Expected May 2021

cGPA 3.73/4.00

Relevant Coursework: Algorithms, Data Structures, Systems Programming, Software Design, Linear Algebra, Calculus, Machine Learning, Image Processing.

Skills

Languages Python, Java, JavaScript, C.

Frameworks PyTorch, Tensorflow, Keras, ReactJS, Flask.

Tools Git, Unix, Bash, Android, Azure, HTML, CSS, Agile.