

# 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.