

# Jason Tang

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## EXPERIENCE

### Crossing Minds — *Applied Machine Learning Intern*

May 2023 – Dec 2023

- Driving a 40% upsell to a multi-billion dollar brand by pioneering an image-to-text data enrichment service, while also garnering substantial interest and upsell potential in existing and incoming clients.
- Enhancing text-based catalog search in conversational AI recommendation systems with image-generated captions, targeting a 20% accuracy increase for clients with limited product descriptions.
- Redesigning content-based recommendation systems used in 10-15 monthly demos for potential customers, facilitating precise recommendations in scenarios with minimal or absent interaction data.

### Amazon — *Software Development Engineer*

July 2021 – Aug 2022

- Designed critical workflow features used by 500,000+ sellers to track 1.8 million shipments weekly.
- Led the development of a partial failure process to display available data during API failures, resolving a year-long issue of 1,000+ daily shipment errors and easing the operational load for 4 dependent teams.
- Managed a \$150,000 yearly budget to forecast and scale compute infrastructure for peak traffic events.

### Royal Bank of Canada — *Data Science Intern*

May 2020 – Aug 2020

- Improved expense forecasting accuracy by 11.7% through a real-time analytics dashboard utilizing time series analysis with ARIMA and RNNs, automating the original 2 week manual process.
- Pitched the prototype to senior leadership and 300+ employees, attaining the top award out of 9 teams.

### University of Toronto IT Services — *Data Scientist Intern*

May 2019 – Aug 2019

- Reduced salary band evaluation time for job descriptions by 82% while maintaining an accuracy of 98.3% compared to manual assignments by leveraging Word2vec and dense neural networks.
- Applied model interpretability methods to identify and highlight influential key terms for clients with a desired salary band to modify, resulting in a 96% satisfaction rate in the pilot testing phase.

## RESEARCH

### Robot Vision and Learning Lab — *Research Assistant*

Oct 2020 – Feb 2022

- Assisted Professor Florian Shkurti in overcoming the impractical but common assumptions of known task boundaries and identities in image-based continual learning, funded by LG Electronics.
- Distinguished boundaries on Split-CIFAR100 with 96.2% accuracy by adapting an energy-based method from out of distribution detection literature and minimizing fluctuations with Kalman filters.
- Explored negative sampling and core set methods to mitigate forgetting in automatic task recognition.

## EDUCATION

### University of Toronto

Masters of Science in Applied Computing — *GPA: 4.00/4.00*

Sept 2022 – Dec 2023

Bachelors of Science in Computer Science — *GPA: 3.86/4.00*

Sept 2017 – June 2021

## SKILLS

**Languages:** Python (PyTorch, Hugging Face, Numpy, Pandas), Java, SQL, JavaScript/TypeScript (React), C.

**Tools:** 2D/3D Computer Vision, NLP, Recommender Systems, Git, Unix, Shell, Security, AWS.