Jason Tang

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EXPERIENCE

Amazon — *Software Development Engineer* July 2021 - Aug 2022

- Designed key workflow features used by 500,000+ sellers to track 1.8 million shipments each week.
- Led the implementation of a partial failure process to display available data when APIs fail, resolving 1,000+ failing shipments each day and reducing the operational load for 4 dependent teams.
- Managed a $150,000 budget to scale compute infrastructure by up to 300% in preparation for peak traffic events and to adapt to long-term customer usage shifts.

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 to senior leadership and 300+ employees, attaining the top solution 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 historical manual assignments by utilizing Word2vec and dense neural networks.
- Employed 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 commonly utilized 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 reducing fluctuations with Kalman filters.
- Experimented with energy-based models to recognize task identity with negative sampling and a core set of past task exemplars to reduce forgetting.
- Presented literature reviews and detailed potential approaches in biweekly progress reports.

EDUCATION

University of Toronto Sept 2022 - Dec 2023
Masters of Science in Applied Computing *GPA: 4.00/4.00*

- Teaching Assistant - CSC207: Software Design, CSC401: Natural Language Processing

University of Toronto Sept 2017 - June 2021
Bachelors of Science in Computer Science *GPA: 3.86/4.00*

- Teaching Assistant - CSC148: Introduction to Computer Science

SKILLS

Languages: Python, Java, SQL, JavaScript, TypeScript, C.

Frameworks: PyTorch, Keras, ReactJS.

Tools: Git, Unix, Bash, AWS, Android.