

Jason Tang

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EXPERIENCE

Stripe – Software Engineer

March 2024 - Present

- Architected and led integration into Visa's Merchant Screening Service, scaling to **1.7M monthly merchant screens** and improving early detection of prohibited high-risk merchants..
- Migrated **3.5M monthly cardholder sanction screens** to dedicated infrastructure, eliminating resource contention to reduce latency by **82%** and cut card decline volume by **52% (\$1.55M annually)**.
- Designed an onboarding system integration enforcing new political exposure controls for **980K monthly users**, aligning with org-wide tech leads and managing junior engineers throughout development.

Crossing Minds – Applied Machine Learning Intern

May 2023 - Dec 2023

- Generated upsell opportunities driving up to **40% increased revenue** by pioneering an **image-to-text** data enrichment service that enhanced catalog searchability with image-generated captions and tags.
- Achieved **97% nDCG ranking parity** against human labels, with a **1.3% performance increase** when image-generated text was combined with human text; presented findings in a [paper](#) at ISIR-eCom 2024.

Amazon – Software Development Engineer

July 2021 - Aug 2022

- Developed vital software features and provided critical on-call support to maintain system availability, enabling **500K sellers** to monitor and manage **1.8M weekly shipments** seamlessly.
- Created a partial failure process to display available data during API failures, resolving an issue causing **1.1K daily shipment errors** affecting four dependent teams.

Royal Bank of Canada – Data Science Intern

May 2020 - Aug 2020

- Automated a two week long manual expense forecasting process and decreased prediction error by **11.7%** by aggregating historical data from multiple data sources to train deep **time-series** models.
- Recognized as the **top solution** out of nine intern teams after pitching to senior leadership.

RESEARCH

Robot Vision and Learning Lab – Research Assistant

Oct 2020 - Feb 2022

- Assisted Professor Florian Shkurti in circumventing the common assumptions of **known task boundaries and identities** in image-based **continual learning**, funded by LG Electronics.
- Identified task boundaries with **96.2% accuracy** on Split-CIFAR100 using modified **energy-based models** from out-of-distribution literature and explored ways to reduce forgetting in task identification.

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, Pandas), Ruby, Java, SQL, TypeScript, C.

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