Jason Tang

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EXPERIENCE

Stripe — Software Engineer   March 2024 - Present

- Architected and led implementation of a Visa Merchant Screening Service integration that screens **1.7M monthly merchants** against Visa's terminated merchant database.
- Migrated **3.5M monthly cardholder sanction screens** to a dedicated processing infrastructure, eliminating resource contention to reduce latency by **82%** and cut latency-induced card authorization decline volume by **52% ($1.55M annually)**.
- Designed an onboarding system integration enforcing new financial crime controls for **980K** monthly users, aligning with org-wide tech leads and managing engineers through 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, AWS, 2D/3D Computer Vision, NLP, Recommender Systems.