

# Steven Z. Zhang

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## Education

### University of Toronto

Computer Engineering, B.A.Sc

September 2019 - Present

- **Fourth Year**, 2019 – 2023 + PEY
- **Scholarships**: Edward S Rogers Sr. Scholarship, Engineering Admission Scholarship
- **Relevant Courses**: Algorithms & Data Structures, Machine Learning, Databases, Operating Systems, Linear Algebra, Calculus, Probability

## Professional Experience

### RBC Capital Markets

AI Engineer

February 2023 - Present

- Implemented a large language model (LLM) to generate concise talking points, streamlining client outreach for the sales coverage team
- Detected changes in client reading preferences of internal research using word embeddings and natural language processing (NLP)
- Designed and implement a full-stack trading analytics platform using live intra-day data from the trading floor
- Identify trading anomalies by modelling seasonal trends in time series data using neural networks

### RBC Capital Markets

Crypto and Digital Strategy Analyst

January 2022 - 2023

- Executed arbitrage experiments on cryptocurrency exchanges by exploiting the latency in cloud infrastructure
- Trained transformer machine learning model on returns prediction by scraping L2 order book data, which achieved an accuracy of 94%
- Analyzed the impact of equities on Bitcoin's risk with an ARIMA model using NumPy, pandas, and statsmodels
- Built a full-stack React web app to display technical analysis of cryptocurrency markets

### Orkestra SCS

Software Engineering Intern

Summers 2020 - 2021

- Spearheaded the launch of the carbon-offset program, which calculated emission footprints based on the supply-chain product flow
- Automated ETL (extract, transform, load) tasks in Azure Functions in Python to aggregate incoming feeds into data lakes
- Programmed and tested data integrations with 80% code coverage for client's enterprise platforms
- Maintained DevOps tasks on The Microsoft Cloud platform to ensure 99.999% service up-time

## Extracurricular Activities

### UofT Hyperloop Team

Project Manager of R&D Team

January 2020 - Present

- Conducted research into the linear induction motor propulsion system for the hyperloop pod
- Simulated magnetostatic and transient motion in 2D/3D using Simcenter MagNet
- Coordinated the manufacturing and testing of the pod's physical prototype

### MoneySmarts Org.

Co-Founder

September 2017 - 2019

- Completed the DMZ Basecamp startup accelerator program to grow a business idea into a fleshed-out organization
- Expanded the team to over 30 students across the GTA
- Developed a Facebook Messenger chatbot with basic natural-language-processing capabilities
- Winner of the Innovation Catalyst Award at the SAGE Canada competition out of 100+ competitors
- Winner of the Runner Up award at the CNE Innovation Garage competition out of 100+ competitors

## Hackathon Awards

**FillMeln**, Study tool that analyzes notes auto-redacts keywords based on string difficulty

NewHacks

**Encrypton**, Securely encrypts and stores files on the blockchain while tracking who has seen them

Hack the North

**CRYBL**, Gamified cryptocurrency trading platform that rewards winners automatically using smart contracts

PennApps XVII

**Build a Business in Brampton**, Suggests locations to open a new business based on demographic GIS data

Cipher Bonfire

**Memeify**, Chrome extension that replaces hate speech and NSFW content with kind words and memes

MasseyHacks III

**Radix Banking**, Website that promises crypto P2P lending, token exchange, and equity crowdfunding

InspireHacks