

Steven Z. Zhang

📞 (647) 549-0619 | ✉️ stevezhang@gmail.com | 🏠 stevenzhang.xyz | 🔗 linkedin.com/in/steven-zifan-zhang

Education

University of Toronto

Computer Engineering, B.A.Sc

Sept. 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

Feb 2023 - Aug 2023

- Deployed a large language model for automated creation of concise talking points, improving sales outreach efficiency
- Analyzed client engagement with internal research using NLP and word embeddings
- Built a real-time trading analytics platform using live data from the trading floor
- Detected trading irregularities by analyzing seasonal patterns in time-series data through neural networks

RBC Capital Markets

Crypto and Digital Strategy Analyst

Jan. 2022 - 2023

- Conducted latency-based arbitrage experiments on crypto exchanges
- Developed a 94% accurate transformer model for predicting returns using L2 order book data
- Assessed Bitcoin's risk influenced by equities using an ARIMA model with NumPy, pandas, and statsmodels
- Created a React web app for real-time crypto market technical analysis

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 Projects

Alljoined - Brain Image Reconstruction

Co-Founder

Aug 2023 - Present

- Developed ML algorithms to interpret visual input from EEG data
- Selected for Z Fellows startup accelerator
- Assembled a Linux-based GPU cluster for bare-metal ML training
- Secured over \$20,000 in funding

UofT Hyperloop Team

Project Manager of R&D Team

Jan 2020 - 2022

- 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

Hackathon Awards

2023	FillMeIn , Flash new firmware for your IoT devices over the air using a simple web interface	Hack the North
2020	FillMeIn , Study tool that analyzes notes auto-redacts keywords based on string difficulty	NewHacks
2018	Encrypton , Securely encrypts and stores files on the blockchain while tracking who has seen them	Hack the North
2018	CRYBL , Gamified cryptocurrency trading platform that rewards winners automatically using smart contracts	PennApps XVII
2017	Build a Business in Brampton , Suggests locations to open a new business based on demographic GIS data	Cipher Bonfire
2017	Memeify , Chrome extension that replaces hate speech and NSFW content with kind words and memes	MasseyHacks III
2017	Radix Banking , Website that promises crypto P2P lending, token exchange, and equity crowdfunding	InspireHacks