Steven Z. Zhang

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Education

University of Toronto

Computer Engineering, B.A.Sc   *Sept 2019 - Current*

- 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

Crypto and Digital Strategy Analyst   *Jan 2022 - Present*

- 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 statsmodles
- 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

Livelihood Project Inc.

Digital Technology Lead   *Summers 2017 - 2018*

- Rewrote the company website from scratch with responsive design principles, increasing web traffic by 24x
- Registered the organization with Google for Nonprofits, granting $10,000 in monthly advertising exposure
- Launched online food delivery and catering programs, increasing revenue by 30%

Extracurricular Activities

UofT Hyperloop Team

Project Manager of R&D Team   *Jan 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   *Sept 2017 - June 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
- Won the Innovation Catalyst Award at the SAGE Canada competition out of 100+ competitors
- Won the Runner Up award at the CNE Innovation Garage competition out of 100+ competitors

Hackathon Awards

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*