SABRINA HIRANI

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SKILLS -

Languages: Python, Java, C++, C, Javascript, Typescript, Go, Rust, SQL, R, Solidity

Technologies: React.js, Express.js, React-Native, Flask, MySQL, PostgreSQL, Docker

Data Science: Pytorch, Tensorflow, NumPy, Pandas, HuggingFace, LangChain, LlamaIndex

Blockchain: Hardhat, Ethers.js, Chainlink, The Graph, OpenZepplin, Solmate, Circom, Snark.js

EDUCATION

9/2022 - 6/2026

University of Toronto

BSc. Computer Science

- Major: Computer Science, Minor: Statistics, Economics
- Relevant Courses: Microeconomic Theory, Principles of Microeconomics, Principles of Macroeconomics, Probability and Statistics, Applied Statistics, Multivariate Calculus, Linear Algebra

GPA: 3.8

EXPERIENCE -

5/2024 - PRESENT Finance Process Transformations Intern

Royal Bank of Canada

- Led the development of multiple tax automation processes, using Robotics Process Automation (RPA) tools such as Blue Prism and VBA, to deliver a streamlined accounting workflow, saving an estimated 1000+ hours of manpower
- · Learned about numerous financial processes within RBC in accounting, product control, etc.

Robotic Process Automations / Python / SQL / Blue Prism / VBA / Excel

5/2023 - 8/2023

Machine Learning Intern

CDTx @ University Health Network

- Programmed a virtual heart failure assistant by prompting and finetuning GPT models and HuggingFace models (Llama, Llama2, WizardLM, Falcon, Vicuna) using LlamaIndex, LangChain, HuggingFace to aid heart failure patients in managing their condition
- Performed web scraping using Selenium to develop a heart failure training data corpus

Pytorch / HuggingFace / LangChain / LlamaIndex / Selenium

7/2022

Technology and Operations Intern

Ewings LLC

- Gained a comprehensive overview of how different aspects of a business come together by shadowing customer service, marketing, public relations and communications, human resources, sales, and IT
- Learned about enterprise resource planning (MS FO and MS CRM), learned about development environments (MS LCS), learned about servers, hardware, the cloud

11/2019

Consultant

Sidewalk Labs @ Google X

• Conducted a root-cause analysis of Toronto's housing crisis to develop a proposal to reduce construction costs by almost 5% with the use of generative design technology

AWARDS

- * The DaVinci Competition 2023, Winner of Web 3.0 Category
- * SF Hacks 2021, Winner
- * Hack to the Future 2022, Finalist
- * Global Challenge 2020, Finalist

PROJECTS	
03/2024	 Crypto Trading Agent Programmed reinforcement learning agents, using Q learning strategies, policy gradient strategies, and actorcritic strategies, to learn a policy to maximize returns on a portfolio of popular cryptocurrencies
	 Programmed a LSTM for price prediction (with the intention to explore model-based reinforcement learning techniques)
	Pytorch / Pandas / NumPy / Matplotlib / OpenAI Gym
06/2024	Gradient Finance Programmed a synthetic asset protocol for investing in equities in the decentralized finance (DeFi) ecosystem Programmed a decentralized exchange (DEX) with an automated market maker for trading synthetic assets Tokenized vaults, price oracles, liquidity pools, and lots of tokens Solidity / Chainlink / OpenZepplin / Solmate / Solady
03/2022	ASKR • Devised a decentralized lending protocol to introduce the idea of collateralized debt obligations (CDO) to the decentralized finance (DeFi) ecosystem • Top 10 Finalist of Hack to the Future 2022 Analytical Thinking / Problem Solving / Passion / Love

Dual Citizen of Canada and USA