

EDUCATION

- University Of Toronto** September 2022 – June 2026
Honors Bachelor of Science, Specialization in Computer Science & Entrepreneurship (Co-op), Major in Statistics Toronto, CA
 - Awarded the **\$400,000 Lester B. Pearson Scholarship** as the sole recipient from 20,000+ applicants for **academic** and **leadership** excellence
 - Teaching Assistant** for Intro to Computer Science, Programming, and Calculus, guiding 100+ students through concepts and tutorials
 - Scored **90/100**, ranked **53rd globally** out of 20,000+ participants in the Euclid Math Contest, showcasing advanced **problem-solving skills**

PROGRAMMING SKILLS

Languages: Python, Java, C, C++, HTML, JavaScript, Typescript, SQL, Bash, Beginner (Rust, Go, Scala, PHP , C#, Ruby)
Tech & Frameworks: ReactJS, Django, TensorFlow, MySQL, OpenCV, NodeJS, CLI, D3.js, WebGL, API, REST
Tools: Git, Docker, Azure, CI/CD Pipelines, MongoDB, JIRA, Linux, Android Studio, PowerBI, Figma, Jupyter

PROFESSIONAL EXPERIENCE

- ML Researcher & Software Developer** | Computational Social Science Lab, UofT October 2023 – Present
 - Enhanced the Maia Chess platform (developed with Microsoft) by creating **machine learning models** that replicate diverse human chess strategies, enabling **personalized feedback** and significantly improving user learning experiences; with Ashton Anderson (Vector Institute)
 - Developing an interactive website to stream chess **AI models** playing against each other on Twitch, integrating **live analysis** and real-time learning between models, leading to increased **user engagement** within AI research and gaming communities
- AI Researcher & Consultant** | CIGI, Waterloo September 2024 - December, 2024
 - Researched **AGI advancements** and **global AI risks**, identifying technical **mitigation strategies** to inform international policy
 - Developed reports and presentations for **AI experts**, contributing to international **AI governance frameworks** in global decision-making
- Researcher, Algorithmic Bias in Twitter** | Rotman School of Management, Toronto June 2023 – February 2024
 - Led the **analysis of 100,000+ tweets** using Python, Pandas, NumPy, and Scikit-learn, uncovering significant patterns of **bias and misinformation** that shaped further research on algorithmic bias
 - Automated the extraction and processing of **6,000+ Monkeypox articles** from various news outlets using **BeautifulSoup** and **Selenium**, enabling accurate real-time content analysis with Professor Yizhou Jin (Rotman Faculty)

PERSONAL PROJECTS

- DeezSquats : Hack the Valley Best AI Hack** | Source Code + Demo | Pytorch, Streamlit, OpenCV, YOLO October 2024
 - Built an **AI-driven fitness app** with a Streamlit interface, enabling users to interact with a **LLaMA-based** (open source) chatbot hosted on Cloudflare for personalized workout plans tailored to individual fitness goals
 - Developed **dual feedback modes**: video upload for comprehensive analysis and real-time feedback, utilizing **YOLO (Computer vision) -based pose estimation** and Computer Vision ML algorithms to deliver instant form corrections, enhancing exercise safety
 - Expanded exercise library and optimized adaptive recommendations, enabling users to **track progress and refine techniques** based on AI-driven insights, boosting engagement and confidence
- NotParx** | Source Code + Demo Video | ReactJS, Django, Docker, Azure, MongoDB, Scraping, Scrum April 2024
 - Led the development of a comprehensive platform for Parkprescriptions.ca, enabling doctors to **register, verify, and issue prescriptions**; managed system architecture using **React for UI** and **Django for microservices**; oversaw **CI/CD pipelines** for seamless deployment as **Scrum Master**, practicing Agile methodologies, version control and proper documentation
 - Developed real-time data scrapers integrating **10+ Canadian medical databases** via **Azure Functions**, ensuring **accurate and up-to-date prescription management**
- Kaggle Competition — DS3 Datathon Winner** | Presentation | ML, Transformers, Pytorch January 2024
 - Celestial-Labeling (Kaggle) Got 97.6% accuracy using a hybrid Decision Tree model(Random Forest and XGBoost)
 - Traffic Signs (Kaggle) Got 97.5% accuracy with optimized (CNNs) for traffic sign(Images) classification
 - Heart Disease (Kaggle) Secured 88.3% accuracy through an ensemble of multiple models for heart disease prediction

LEADERSHIP EXPERIENCE

- Founder & Co-Chair** | Gen AI Genesis (Canada’s Largest AI Hackathon), Toronto, CA February 2023 – Present
 - Founded and led **Canada’s largest AI hackathon** with **3000+ applicants** and **50+ organizers**, garnering coverage from **140+ global media outlets** and establishing a premier platform for **AI innovation and collaboration**
 - Secured **\$90,000+ in sponsorships** from **16+ leading organizations** including **Google, United Nations, Vector Institute, AMD, PwC**, and **Cohere**, forging lasting partnerships with industry and academia
- Co-President** | Departmental Student Association for Computer Science & Math (AMACSS), UofT June 2023 – Present
 - Led with a growth mindset, the **largest student association** for **3,000+ students** in Computer Science and Math, organizing **10+ events** that engaged **250+ participants** and fostering a vibrant **technical community** within the department
 - Conducted weekly **workshops on Data Structures and Algorithms (algorithm development)**, consistently attracting **40+ students per session**, enhancing their technical skills and readiness for academic and industry challenges