

Education

Brock University	St Catharines, ON	April 2025 Graduate
<ul style="list-style-type: none">• BSc Computer Science - Statistics Minor• Coursework: Software Engineering, Advanced Data Structures and Algorithms , Unity Development, Computer Architecture, Web Development, Programming Languages, OS Systems, Databases Systems, Cybersecurity		

Languages and Technologies

- Java, Python, JavaScript, C#, Django, React.js, Node.js, Kubernetes, Docker, Flutter, Firebase, R, Maple, SQL

Work Experience

Machine Learning Researcher	UofT (T-CAIREM)	(April 2025 – Current)
<ul style="list-style-type: none">• Developing web application to process patient video and audio data for concussion triaging, generating comprehensive summary reports for clinical use, deploying a CI/CD system• Utilizing supervised training on facial landmark data to determine emotions, pain, and other body indicators critical for determining severity of concussion.		

Data Engineer	RBC	(January 2024 – August 2024)
<ul style="list-style-type: none">• Utilized Python data science libraries (Pandas, Matplotlib) to analyze and highlight high exposure positions, creating interactive dashboards that enabled instant access to key information and eliminated the need for manual data searches.• Streamlined an automated system to scrape thousands of documents of many formats to reduce hours of weekly manual labour through a variety of interfaces, and to create reports. Built a series of programs to automatically build monitor KPIs, analyze data, and schedule processes on UNIX server. Built of a data pipeline used by 20+ people used for data analysis of international stress testing policy (Assets, Derivatives, Securities) Plotly, Numpy, Pandas, scikit-learn.• Developed Project Hawkeye, a proprietary LLM-based automation tool that processed 10,000+ legal reports and documents, enabling instant retrieval and streamlining organization-wide inquiry management. Led full-cycle development utilizing OpenAI API in collaboration with the innovation team, significantly reducing manual workload and improving legal document accessibility across multiple departments.• Worked on LLM proprietary "Project Hawkeye" used to automate legal documents reports and inquiry organization-wide alongside Innovation team, involved in development cycle utilizing OpenAI API.		

Research Assistant	Brock University	(May 2023 – Current)
<ul style="list-style-type: none">• NLP project in order to explore the "reversal curse" (flaws in symmetry, reflexivity, and transitivity), as well as exploring methodologies to replace knowledge graphs with LLMs, such that knowledge may be reliably stored with minimal hallucinations. Utilizing GPT-3 and Llama-1.• Created a cross platform Flutter application to connect clients with volunteers with and map, chat features, a matching algorithm, transit and weather APIs. Data analysis project collects information for future insights regarding users, and optimization of pathways. Done in collaboration with multiple faculties and Niagara Region Community Services.• Project in debiasing collaboration-aware graph convolutional network for recommender systems, developing a novel multi-objective architecture approach		

Site Reliability Engineer	President's Choice Financial	(May 2022 – August 2022)
<ul style="list-style-type: none">• Automating analytical tools to cross-use JIRA, GCP, Alertmanager, PagerDuty, Kibana, ServiceNow tickets for streamlined failure communication, reduced dependencies, ensuring system uptime.• Reduced SRE Helm Chart deployment time and cloud resource usage by 65% by standardizing Docker images for app deployment pipelines as well as optimizing code for performance using techniques such as algorithm analysis.• Configured and deployed Docker containers to virtualize applications on UNIX servers, supporting production environments for multiple teams, ensuring efficient resource utilization, and enhancing application scalability and reliability.		

Web Developer	Civiconnect	(January 2022 – April 2022)
<ul style="list-style-type: none">• Engaged in full-stack web development, including prototyping, development, and user testing, to create responsive, mobile-friendly websites. Designed and developed websites for businesses with integrated Shopify e-commerce capabilities, utilizing databases and AWS hosting with SSL-secured domains in Django.• Collaborated directly with stakeholders and team in agile development, communicating technical and financial information, establishing timelines, and determining the final product based on feasibility and client requirements.		