

EDUCATION

University of Toronto

Honours Bachelor of Science

Specialist in Computer Science (ASIP co-op) & Major in Cognitive Science

September 2021 - June 2026

SKILLS AND TECHNOLOGIES

Programming: Javascript/Typescript (ReactJS, NextJS, React Native, NodeJS), Python (Django, Flask), C# (.NET Core), Java, C, PHP, HTML, CSS
Databases: MySQL, PostgreSQL, MongoDB, Firestore
Tools: Git, Docker, L^AT_EX, AWS, VS Code, Postman, GraphQL, Datadog, Storybook

EXPERIENCE

theScore

Software Developer Co-op

May 2024 - Present

Toronto, ON

- Developed and maintained user-facing features using ReactJS, Typescript, and Tailwind CSS for kiosk and OTC devices deployed in PENN Entertainment retail sportsbook locations, collaborating closely with designers and product managers.
- Conducted thorough debugging of staging and production bugs, coordinating with team members in back-end and systems to deliver fixes in a scalable and timely manner.
- Improved observability by incorporating Datadog RUM and BugSnag in addition to ensuring robust front-end testing using Vitest, RTL, Storybook, and Percy/Happo visual regression.
- Increased code visibility and developer velocity by consolidating sportsbook and casino web applications and internal component libraries into an NX monorepo.

morLab, Department of MIE, University of Toronto

Software Engineer

January 2024 - April 2024

Toronto, ON

- Designed and developed a web application for morLab, led by Professor Dionne Aleman, to provide a user-friendly tool to create, view, and manage advanced and customizable pandemic simulations.
- Led the front-end initiative for the application, creating Figma designs and consulting with the research team on functional UX requirements, as well as spearheading the development of the UI using ReactJS and ChakraUI.
- Leveraged Django to develop a scalable backend that runs containerized simulation instances using AWS S3 and Batch.

NerveX Neurotechnologies

Software Engineering Intern

May 2023 - January 2024

Toronto, ON

- Optimized the .NET Core API by implementing Hangfire background workers to perform efficient timeseries data down-sampling, enhancing data retrieval speeds by over 600% and decreasing AWS S3 calls by 320%.
- Enhanced a custom charting library for displaying medical data from proprietary devices, adding features and resolving bugs using ReactJS, TypeScript, and Tailwind CSS.
- Streamlined data pipelines by containerizing and deploying machine learning algorithms via Docker and AWS Lambda for analyzing high-frequency timeseries data.

University of Toronto Blueprint

Senior Project Developer

September 2023 - April 2024

Toronto, ON

- Developed a full-stack web and mobile application for the Center For Dreams, a nonprofit focusing on educational and social integration programs for individuals with developmental disabilities.
- Implemented a native notifications system across a React Native mobile app built on Expo and a scalable back-end architecture using tRPC, Typescript, and Prisma.

PROJECTS

Street Savvy 🗺 (Python, ReactJS, Firebase)

- Developed a React web app to suggest Toronto restaurants using a custom recommendation engine fed with data from over 1300 locations aggregated used Google Places API and stored in a Firestore database.
- Created a RESTful API in Python with Flask to handle user actions and recommendation generation.
- Employed the Cohere NLP API to extract location categories and to summarize Google Maps reviews.

Twitter Geo-Sentiment 🗨 (Python, ReactJS, MongoDB)

- Developed a full-stack sentiment analysis web app leveraging the Twitter API for regional topic sentiments, achieving 90% accuracy with a Naïve Bayes model via NLTK and Scikit-learn.
- Combined a ReactJS frontend with a Flask RESTful API to retrieve and process Twitter data, execute sentiment analysis, and manage storage using MongoDB.