

## EDUCATION

**University of Toronto** | BAsC in Engineering Science – Machine Learning Major • *Expected Graduation: 2024*

- **Minor in Business** | CGPA: 3.68 | 2020 Prof. Morris A. Cohen and 2021 Mario Pesando Scholarship
- Relevant courses: Computer Algorithms & Data Structures, Databases, Machine Learning, Optimization, AI, OS

## SKILLS

- **Languages:** Python, C++ & Arduino, SQL, Verilog FPGA, C, MATLAB, ARM Assembly, R, Dart, JavaScript
- **Technical:** React.js, AutoCAD, Flutter, AWS, HTML, CSS, ModelSIM, TensorFlow, PyTorch, NumPy, Pandas, Flask, sklearn, PostgreSQL, JDBC, IBM Watson, Microsoft Office, APIs, XML, prototyping, business analysis

## WORK EXPERIENCE

**Software Engineering Intern** | Intel Corporation • *May 2022 – Present*

- Developed backend and user-facing GUI using C++ and Python to automate matching waves for the Signal Tap Logic Analyzer, maximizing signal visibility for system-level debugging. Conducted unit and regression tests.
- Collaborated as a cohort leader to host weekly events for 25+ interns, including managing intern cohort budget.

**Software Developer & Data Engineer** | Dataraction • *September 2020 – June 2021*

- Regulated databases, ran raw SQL queries, and aggregated data using JDBC to develop an internal dashboard providing insights on user journey and growth; pitched forecasts and marketing strategy to investors.
- Launched a real-time analytics dashboard for streamers on the streaming service using IBM Cloud and AWS.
- Front-end developer for a Flutter app encouraging user feedback on videos from chosen criteria. Engineered numerous video, notification, and user models, a badge system to ensure reliability, and conducted unit testing.
- Implemented IBM Watson and organized beta testing to design a chatbot enhancing user experience.

## PROJECTS

**AI Team Lead** | *AI For Business Competition 2021 - RBC, Microsoft, Technation* • **2<sup>nd</sup> Place/302 – \$3000**

- Developed a business proposal and prototype using React.js, CSS, and Power BI for a 5-month competition.
- Spearheaded an AI logistics solution leveraging ML to streamline B2B and B2C relationships and transactions.

**Optimizing Shoe Storage Systems** | *BATA Shoe Museum's 2020 Shoe Storage Challenge*

- Incorporated iterative design relative to stakeholders, objectives, and client-given metrics to compile a design brief summarizing 10+ shoe storage solutions, converging to a Jenga-inspired drawer system.
- Constructed 3 laser cut wooden prototypes using AutoCAD to assess stability, usability, and accessibility.

**Autonomous Robot** | *Robotics for Space Exploration's SEEK 2019 Competition* • **2<sup>nd</sup> Place Finalist**

- Innovated to create an Arduino (C++) Bluetooth-controlled robot within 6 hours which could turn, stop, drive forwards or backwards, sense obstacles, and completed an obstacle course with an autonomous challenge.

**Steadymate Temperature Monitor** | *UofT CUBE's 2019 Biomedical Engineering 24h Hackathon*

- Designed and prototyped a functional body temperature monitor in the form of a bracelet for children suffering from CIPA using Arduino (C++) consisting of temperature sensors, sounds, and LEDs to alert a temperature spike.

## EXTRA-CURRICULARS

**Project Developer** | UofT Machine Intelligence Student Team | ECG Analysis • *Sep 2021 – May 2022*

- Developed a deep convolutional neural network model for ECG analysis to diagnose cardiovascular disease.

**Electrical Engineer** | UofT Hyperloop Team • *June 2019 - June 2020*

- Designed and developed prototypes for a hyperloop pod by compiling research and discussing with 6+ team members to make decisions on battery management, development, safety, and cooling mechanisms.
- Modelled battery configurations using AutoCAD and researching 10+ cooling methods.

**Elected First-Year Engineering Science Representative** | UofT Engineering Society • *Sep 2018-May 2019*

- Engaged in discussion with faculty and teaching staff concerning specific issues and concerns of the Engineering Science class of 260+ to enhance the learning experiences of peers.
- Facilitated weekly events hosting 20+ students promoting positivity, diversity, & inclusivity within the community.