





Albert C. Lai

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Experience

Machine Learning Developer and Data Analyst

July 2019 – Present

Neurofit VR, Toronto, ON

- Created a formal pilot report highlighting insights and next steps used to attract investors and validate the product
- Performed data and statistics analysis and generated data visualizations in Python and Excel
- Developed Machine Learning models with Pytorch and GCP AutoML Tables to predict engagement and abilities
- Designed user testings and pilot studies for patients with brain injuries through following research and objectives

Community Member and Speaker

March 2019 – Present

AI Socratic Circles, Toronto, ON

- Explained the concepts behind a paper titled *Defending Against Neural Fake News* with AI enthusiasts and led a thoughtful discussion regarding the ethics and future of the technology presented
- Engaged with fellow members in discussions and explorations in the field of Machine Learning

Hacker and Instructor

September 2019 – Present

Hack Club, Markham, ON

- Taught Machine Learning concepts to a group of 15 students and guided them through building their own classifier
- Planned and led a “Build Your Own Personal Website” workshop with over 50 students in attendance
- Collaborated with fellow executive members to plan meeting agendas and marketing strategies

Robotics Designer and Engineer

September 2017 – June 2019

Trubotics Club, Markham, ON

- Iteratively designed, constructed, and tested 5+ VEX robots, placing 17th out of 37 teams and 21st out of 75 teams
- Programmed in ROBOTC for autonomous and control robot sessions
- Collaborated with team members in managing and organizing tasks

Education

Pierre Elliott Trudeau High School

September 2017 – Present

Markham, ON

- Currently in Grade 11 with 100% in Advanced Functions and 98% in Grade 12 Computer Science
- Extracurriculars: Computer Science, Cross Country and Run Club, Trubotics, HOSA

Skills

- Languages: C++, Java, Python (TensorFlow and Pytorch), HTML, CSS
- Programs: GIMP, Microsoft Office, G Suite, Anaconda, Git, iMovie
- Technologies: Machine Learning (Computer Vision and Natural Language Processing), Brain Computer Interfaces

Interests and Achievements

- **Perfect Score and Canadian Champion**, University of Waterloo's Fermat 2020
- **Perfect Score and Canadian Champion**, University of Waterloo's CSMC 2019
- **Perfect Score and Canadian Champion**, University of Waterloo's CCC Jr 2018
- **Half Marathon Finisher (1:50)**, Scotiabank Toronto Waterfront Half Marathon 2019
- **Hackathons Attended:** Hack The Valley 3, Hack The 6ix, Hack the North, FinHacks
- **Additional Information and Projects:** <https://itsalbert.ca/>, <https://github.com/albertlai431>