

Alain Lou

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Education

Computer Engineering, Honours, University of Waterloo

Starting in Fall 2018

- Early acceptance into top-ranked Canadian computer engineering program

University of Toronto Schools

2014-Present

- 97.3% academic average, including 6 University-level courses (Calculus, Physics, Chemistry, Biology, Economics, and English)
- 2017 International Chemistry Olympiad Team Canada selection camp finalist at the University of Toronto
- Honor roll on the University of Waterloo's Senior Canadian Computing Competition (top 2% nationally)
- Top 3% nationally in the Chem 13 Chemistry Contest
- DECA international business case competition 1st place regionally (2016, 2017, 2018), top 3 provincially (2017, 2018), international top 9 (2017), international finalist (2018)
- 8th place at Educational Computing Organization of Ontario's 2018 provincial competition, 5th place provincially in 2017
- Represented school at the Toronto Brain Bee in 2015 and 2016

Experience

Personal Tutor

- AP level Grade 12 Advanced Functions, Data Management, and Calculus

Envision City Club – Founder

2015-Present

- Secured a \$1000 investment from the school's alumni association for speakers' sessions
- Secured another \$500 for designing and building a public accessory in a priority neighbourhood
- Facilitated a design contest for the grade 7 art class
- Organized discussion panels of well-known Toronto architecture firms (KPMB, Public Accessory Commission)

DECA Club – School Executive

- Trained and supported members for a 3-stage international business case competition
- Placed in the top 9 at the international level

Research Assistant – Dr. Jeff Graham, University of Toronto Mississauga

2017-Present

- Investigating relationships collected through the patented DeckChair online learning platform
- Developed additional features using Javascript for online learning platform
- Software scripting with Openpyxl and Numpy (Python) on Excel spreadsheets, data analysis with R and MATLAB

Referee at the SHL, Parkdale Flames Hockey Association, and CCIHA

2015-Present

- Officiated 350+ games until now

GridlockED

Summer 2016

- Worked with McMaster grad students and professors to create a board game to simulate patient flow in an emergency room department
- Product design and product testing
- Product will be commercialized Summer 2018

Personal Interest in Computers

2015-Present

- Fluent in Java, Python, C++ and web development programming languages and frameworks
- Experience running an IBM Cloudant no-SQL database
- Examples of projects: <https://github.com/alainlou>

Volunteering and other Extra-curriculars

Outside Courses:

- Chemistry 136 – introduction to organic chemistry at the University of Toronto
- Coursera: Machine Learning from Stanford University and Neural Networks for Machine Learning from Geoffrey Hinton

Canadian Music Centre – Volunteer

- Assisted at concerts
- Helped facilitate composer-performer testing sessions

AIM Mississauga

- Planned local events for youth such as coffee houses, basketball tournaments
- Part of funding group to gain sponsorship from Ontario's Trillium Fund

Volunteer in MP Federal Election Office – Team Captain

- Cold called residents and canvassed to get constituency out to vote
- Worked closely with the MP herself to strategically campaign

Additional Credentials

- Licensed Hockey Canada level 2 referee
- Yip's Music Festival scholarship recipient (Piano) and Royal Conservatory of Music ARCT (performance level piano) diploma
- Cisco OpenDNS
- Built own desktop computer tower