

## education

### University of California, Berkeley

Electrical Engineering and Computer Science, BSc | Class of 2020

GPA: 4.0/4.0

### London Central Secondary School

Ontario Secondary School Diploma

FINAL AVERAGE: 98%

## skills

- Java
- Python
- Android
- SQL
- HTML/CSS
- JavaScript/JQuery

## awards

### Mary Louise Wyatt Award

OCTOBER 2016

Second highest final average in graduating class.

### ECOO Programming Contest

APRIL 2016

Ranked provincially 26/500.

### Canadian Senior Mathematics Competition Honor Roll

JANUARY 2016

Approximate national rank of 100/7587.

### Certificate of Distinction

JAN 2013 - JUNE 2016

Received for excellence in Euclid, CSMC, Fermat, CIMC, Galois, Cayley and Pascal mathematics contests.

### Subject Awards

NOVEMBER 2014-2016

Grade 12 Physics and Computer Science;  
Grade 11 Functions, Chemistry, Computer Science and Physics;  
Grade 10 English, French, Industrial Design and Music.

### Alfred Raymond Trust Award

NOVEMBER 2013-2015

Top three in grade based on overall final average.

## experience

### Cognitio

DEC 2016 - PRESENT

#### Chief Technical Officer

- Lead technical pursuits of Cognitio, a recent web-based start-up offering academic resources and guidance for high school students in Ontario.
- Facilitated company transition to a user-generated note-sharing platform based on WordPress, PHP and CSS.

### UC Berkeley Computer Science Department

JAN 2017 - PRESENT

#### Academic Intern

- Helping to provide office hours for introductory computer science course.
- Responsibilities include assisting students with homework, labs and projects, and helping students develop a strong foundation in Python, Scheme and SQLite.

### CodeBase Technical Consulting Group

JAN 2017 - PRESENT

#### Technical Consultant

- Student organization that helps local high-growth startups bridge technical challenges.
- Currently working with Sutro, a hardware startup based in San Francisco, to develop a React Native cross-platform mobile application that allows users to monitor their pool chemistry, view pool analytics, and easily order materials.

### Pioneers in Engineering

SEP 2016 - PRESENT

#### Smart Sensors Team

- Collaborating with over 100 staff to host robotics competitions for local underserved high school students.
- Currently working on PCB design and testing for smart sensors team.
- Club representative for Supernode, a student-run hackerspace.

### The Berkeley Forum

JAN 2017 - PRESENT

#### Communications Committee

- Student organization dedicated to organizing and hosting talks, panels, and debates for the UC Berkeley community.
- Working with Communications Committee to market upcoming events and analyze ticketing/event data.

## projects

### DreamPainter

[devpost.com/software/dreampainter](https://devpost.com/software/dreampainter)

- Gear VR application that allows users to view immersive photospheres and their painted images generated using a fast style transfer neural network implementation.
- Used C# to interface the Gear VR's touchpad controls and used Python scripting to automate the image generation process.
- Developed using Unity game engine with a team of five at CalHacks 3.0.

### Minimalist

[github.com/ellenluo/minimalist](https://github.com/ellenluo/minimalist)

- Android to-do application with Java, XML and SQLite using Android Studio.
- Allows users to organize tasks with lists/labels, due dates and details, and stay on top of schedule with customizable reminders and widgets.
- Features a side navigation drawer, SQLite database and elegant material design.