

# ETHAN LAM

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## EDUCATION

### Honors Bachelor of Science (HBSoc)

September 2019 – April 2023

University of Toronto

GPA: 3.91/4.00

Full academic history can be found [here](#)

## SKILLS

**Languages:** English (Native), Cantonese (Conversational)

**Programming:** Python (NumPy, Pandas, Selenium, PyGame), Java (JavaFX), C, Git, Unix, Bash

**Web Development:** JavaScript (React.js, Node.js), HTML, CSS

**Document Creation:** Microsoft Office Suite, LaTeX, Markdown

## PROJECTS

### Track-19 (Hack The Case 2021 Winner) | *JavaScript, Node.js, Next.js, HTML, CSS*

Feb 2021

A web app that serves Covid data and news relevant to your area, without tracking you

- Used **Next.js**, **HTML**, and **CSS** to create the front end of our website
- Created and edited a video to send to the judges that won Best Presentation, along with our project winning overall

### Operation Guesser (PyJaC 2021 Winner) | *Python, Pygame, React.js, HTML, CSS*

Jan 2021

A math guessing game (**Python**, **Pygame**) that uses recursion and memoization to efficiently generate expressions

- Introduced memoization to our algorithm, increasing efficiency by 700%
- Wrote up a [website](#) using **HTML** and **CSS** to showcase our code
- Wrote and presented a presentation to show off our project on [UTM's PyJaC competition](#) contest day

### Personal Website | *React.js, HTML, CSS, Javascript*

Nov 2020

A website to showcase my resume, portfolio, and projects

- Used **React.js**, **HTML**, **CSS**, and **Javascript** to create components that change and resize dynamically
- Deployed on **Netlify**

### Trading System | *Java, JavaFX*

May 2020 – Aug 2020

A multi-user, real time, database-centered project (**Java**, **JavaFX**) allowing users to trade items

- Contributed to a multi-month project that recieved an A+
- Led communication between all 8 members of our group while utilizing Agile Methodologies

## WORK EXPERIENCE

### Computer Science Tutor

November 2018 – June 2019

Self-Employed

- Taught high schoolers **Python**, leading to an average 12% increase in marks after tutoring

### Music Theory Teacher

December 2016 – Aug 2018

Esther Ng's Music Studio

- Effectively taught high-school level ideas to students - all students passed their RCM exams with 80+%
- Organized Curriculum and followed it to ensure material was taught in a logical way

## HONORS AND AWARDS

### Dean's List Scholar

Summer 2020

Awarded for maintaining a GPA of 3.50 or higher after first year at the University of Toronto

### University of Toronto Scholar's Award

Spring 2019

Merit based award for being one of the most outstanding students to apply to the University of Toronto

### University of Waterloo CSMC Contest Medal

Fall 2018

Awarded by the University of Waterloo for getting the highest mark in my cohort

## COMMUNITY INVOLVEMENT

### Developer Student Club Community Event Director

Winter 2021 – Present

Ran and helped plan engaging online events on Discord for DSC

University of Toronto

### AFGM Section Lead

September 2019 – April 2020

Provided assistance and guidance for a choral program for boys

Oakville, ON

### Vianney Academy of Learning

September 2015 – June 2018

Helped tutor and run activities at a learning academy for at-risk and differently abled youth

Mississauga, ON