

ETHAN LAM

✉ ethan.lam@mail.utoronto.ca | ☎ 647-285-0676 | 🌐 ethanlam.ca | 📄 EthanLam1 | </> DevPost | in Ethan Lam

EDUCATION

Honors Bachelor of Science (HBSc)

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

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

Tools: Git, Unix, Bash

Document Creation: Microsoft Office Suite, LaTeX, Markdown

PROJECTS

Operation Guesser | Python, Pygame, React.js, HTML, CSS

Jan 2021

A math guessing game that uses recursion and memoization to efficiently generate expressions

- Introduced memoization to our algorithm, increasing efficiency by 700%
- Contributed to the back-end algorithm of our mathematical guesser using **Python**
- Contributed to the **Pygame** front end, mocking up the overall design
- 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, leading to our project winning in the intermediate category.

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 allowing users to trade items

- Implemented the front-end of a group project using **JavaFX**, and created the backbone of our backend using **Java**; the project 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