ETHAN LAM

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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 Event Director   Winter 2021 – Present
Ran and helped plan engaging online events for DSC   University of Toronto

AFGM Section Lead   September 2019 – April 2020
Provided assistance and guidance for a choral program for boys   Oakille, 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