Ethan Lam

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Education

Honors Bachelor of Science (HBSc) September 2019 – April 2023
University of Toronto: Computer Science Major, Math Minor and Philosophy Minor
GPA: 3.88/4.00

Relevant Courses: Software Engineering I, Data Structures, Computer Organization, Theory of Computation I, Software Tools and Systems Programming, Software Design

Skills

Programming: Python. Java, Javascript, HTML, CSS, C
Technologies: React.js, Node.js, Next.js, Nest.js, Selenium, JavaFX, Postman, Figma, Neo4j. Git, Bash
Spoken Languages: English (Native), Cantonese (Conversational)

Work Experience

Teaching Assistant May 2021 – Present
University of Toronto

- CSC148H5: Intro to Computer Science
- Taught fundamental computer science concepts (OOP, Recursion, Unit Testing) in classes averaging 50 students

Computer Science Tutor November 2018 – June 2019
Self-Employed

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

Projects

Personal Website: **www.ethanlam.ca/** for more info and projects

Lectern | ***JavaScript, Solidity, Firebase, Node.js, Next.js, HTML, CSS, Blockchain*** May 2021
A decentralized e-learning platform utilizing blockchain to break down borders

- Utilized **Blockchain** technologies to create our own cryptocurrency for payment
- Connected the front-end login flow to our **Firebase** back-end
- Used **chakra-ui** to create a responsive site where students can book sessions and connect with tutors

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

- Mocked up the design of our website on **Figma**
- 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

- Increased our algorithm's efficiency by 700% by using memoization
- Created a website using **HTML** and **CSS** to showcase our code

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 both the front-end and back-end of a multi-month Java project that recieved an A+
- Led communication between all 8 members of our group while utilizing Agile Methodologies

Honors and Awards

Dean's List Scholar September 2019 – May 2021
Awarded twice in two years for maintaining a GPA of 3.50 or higher 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