ETHAN LAM

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WORK EXPERIENCE

Teaching Assistant   May 2021 – Present
University of Toronto

- CSC148H5: Intro to Computer Science
- Responsibilities: assisting in lecture, managing discussion boards, marking homework

Computer Science Tutor   November 2018 – June 2019
Self-Employed

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

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: (Full academic history can be found here)

- CSCC01H3: Introduction to Software Engineering (Software Architecture, RESt, Neo4j, Docker, SQL)
- CSC263H5: Data Structures and Algorithms (Runtime Analysis, Graphs, Hash Tables, BSTs, Priority Queues, Heaps)
- CSC207H5: Software Design (Design Patterns, Agile Development, Clean Architecture)

PROJECTS

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

- Utilized **Blockchain** technologies to create our own cryptocurrency for payment
- 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

- Used **Figma** to mock up the design of our website
- 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 recursive **Python** 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 a website with routing and dynamic sizing
- 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 as a full-stack developer to a multi-month Java project that recieved an A+
- Led communication between all 8 members of our group while utilizing Agile Methodologies

SKILLS

Languages: English (Native), Cantonese (Conversational)
Programming: Python (NumPy, Pandas, Selenium, PyGame), Java (JavaFX), C, Git, Unix, Bash
Web Development: JavaScript (React.js, Next.js, Node.js, Next.js, Neo4j), HTML, CSS
Document Creation: Microsoft Office Suite, LaTex, Markdown

HONORS AND AWARDS

Dean's List Scholar 2019-2020, 2020-2021
Awarded in two years 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

Math and Computer Science Society Summer 2021 – Present
Marketed and planned engaging events for the student body University of Toronto

Developer Student Club Community Event Director Spring 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 Oakille, ON