ETHAN LAM

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EDUCATION

University of Toronto **Sep. 2019 – April 2024**

Honours Bachelor of Science in Computer Science and Mathematics - GPA: 3.91/4.0

Awards

- **Dean's List Scholar (2020, 2021, 2022, 2023):** Cumulative GPA of 3.50 or higher after completion of a year
- **University of Toronto Scholar's Award:** Merit based award for being one of the most outstanding students to apply
- **University of Waterloo CSMC Contest Medal:** Awarded by the University of Waterloo for getting the highest mark in my cohort

EXPERIENCE

Wish **May 2022 – April 2023**

Software Engineer Intern *Toronto, Ontario*

- Created internal cron jobs in **Python** to monitor changes in compliance statuses of over **1,000,000** merchants daily
- Spearheaded AI title optimization project, increasing add-to-cart rate by **7%** and overall revenue by **2%** for **2.4 million** listings
- Pioneered creation of QOL tools in **Javascript** to automate merchant dispute processes, saving **10+** dev hours a month
- Developed tools to support a large-scale initiative to identify and ban over **194,000** dormant merchants safely
- Built new backend statuses for warnings to prevent duplicate work from admin team, saving **30+ hours** a month on moderation

HSBC Canada **September 2021 – December 2021**

Software Developer Intern *Toronto, Ontario*

- Helped architect Synthesis 2.0 using **Scala**; a full-stack, user-facing, scalable, financial trading tool serving thousands
- Created automated data pipelines using **Apache Beam** and **Google Cloud Platform**, speeding up data transfer by **650%**
- Used **React** to create a UI to efficiently query and display over **10 thousand** rows of paginated data to users

University of Toronto **May 2021 – Present**

Teaching Assistant (CSC148, CSC207, CSC301, MAT102) *Mississauga, Ontario*

- Provided technical mentorship for multiple full stack projects over a 4-month scrum development cycle
- Taught design patterns, code architecture, Git, OOP, React, MongoDB, Neo4j, and PostGRES to classes averaging **50 students**
- Used **Python** to develop an automarker for assignments, resulting in **200%** marking efficiency increase

Mathematics and Computational Sciences Society **May 2021 – April 2022**

Marketing Director *Mississauga, Ontario*

- Led a team of associates to create memorable marketing material all year, causing event attendance to climb **250%**
- Analyzed social media analytics to determine which posts will perform better, increasing online engagement by **170%**

PROJECTS FOR MORE, CHECK OUT WWW.ETHANLAM.CA

Baobab | *TypeScript, MongoDB, Mongoose, Nest.js (Node.js) Next.js (React.js)*

- Implemented **RESTful APIs** using **Nest.js** to facilitate creation of education and networking features
- Created a user-friendly design with **Figma**, increasing user engagement and efficiency by 20%
- Implemented pagination for displaying data, reducing load times by **30%**, and eliminating the need for clicks

Lectern | *JavaScript, Solidity, Firebase, Node.js, Next.js, HTML, CSS, Blockchain*

- Created a decentralized e-learning platform connecting tutors with students
- Streamlined our login flow using **Next.js** and **Firebase**, reducing login clicks by 40%
- Leveraged **Chakra-UI** to create a responsive landing page and web app with tutoring session booking functionality

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

- Built a privacy-first webapp to display Covid data and news relevant to users in an area, without tracking user locations
- Mocked up the design of our website on **Figma**, and used **Next.js, HTML,** and **CSS** to bring it to reality

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

- Wrote a **Dynamic Programming** algorithm in **Python** to generate infinitely many arithmetic problems for K-12 students
- Used **memoization** to increase efficiency of our algorithm by 2700%
- Created a website using **HTML** and **CSS** to showcase our code

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, JavaScript/Typescript, SQL
Developer Tools: Git/Github, Google Cloud Platform, Postman, Docker, Jira, Figma
Technologies/Frameworks: React, Next, Node, Nest, Express, PostgreSQL, MongoDB, Neo4j