

Benjamin Tsang

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Education

University of Toronto

Bachelor of Science in Computer Science. CGPA 3.89
Expected Graduation Date: May 2027

Mississauga, Ontario

ESF Sha Tin College

International Baccalaureate Diploma 44 out of 45 points

Hong Kong
June 2023

Experience

University of Toronto Student Research Initiative

Director of Information & Technology

Toronto, Ontario
August 2024 - Present

- Leading the development of UTSRI's official website; Developing and implementing a comprehensive filtering system for STEM research proposals to streamline the review process and improve project selection efficiency.

UTM Mathematical & Computational Sciences Society

Finance Associate

Mississauga, Ontario
August 2024 - Present

- Developing and maintaining budget, leading financial planning, coordinating fundraising efforts, and overseeing sponsorship relationships while ensuring accurate record-keeping and vendor management.

Kantar Group

Quantitative Research Intern

Hong Kong
June 2024 - August 2024

- Performed data analysis and visualization on large amounts of survey data for client companies, forming reports that inform their marketing decisions.
- Built Excel macros and VBA scripts to streamline and automate data processing. Macros were used over 150 times, delivering 14+ hours of time savings.
- Engineered a Flask and SQL-based web application hosted on the company intranet to help automate data processing and project management tasks.

SustainaPod

Software Engineer

Remote
May 2024 - Present

- Developing an educational platform to teach students about career paths in sustainability.
- Built with Next.js, utilizing TypeScript and React for the frontend, and styled using Tailwind CSS.

Personal Projects

Flashloom: AI flashcard educational tool

Headstarter SWE Fellowship

Remote
August 2024

- Designed and integrated a subscription-based payment system using Stripe's API, enabling users to subscribe to our web application to generate flashcard sets based on their prompt inputs.
- Stripe API, Gemini API, Next.js, React, Vercel analytics, Firebase, Tailwind CSS, Clerk authentication.

EduGlow

DeerHacks 2024

Mississauga, Ontario

February 2024

- AI powered web application that can automatically generate google slide presentations for active and passive learning based on user prompts.
- Frontend using HTML and CSS; backend using OpenAI GPT4 API, Google Slides API and Google Image Search API.

MailSpot

- Web application which fetches user emails and sorts them with sentiment analysis, helping customer service representatives address the most urgent customer concerns first.
- Front-end using ReactJS; backend using Flask, SQL and SQLAlchemy; sentiment analysis using Python's VADER NLP library.

Leadership & Activities

ESF Computing Conference

Hong Kong

Chair

February 2022 - September 2022

- Led a team of 15 students in contacting and collaborating with technology companies in Hong Kong to organize a computing conference with over 240 participants from various schools, consisting of educational workshops, keynote speeches and a hackathon with sponsored prizes.

STC Student Council

Hong Kong

Chief of Communications

November 2020 - November 2022

- Worked to bring student suggestions to the school by liaising with school staff and pitching ideas regularly. Successful ideas included: school cafeteria expansion, bathroom facility changes, and student subscriptions to educational tools and platforms.

Skills

Technical: Python, SQL, Java, Javascript, C++, HTML, CSS

Language: Fluent in English, Cantonese, Mandarin

Laboratory: Excel, Powerpoint, Word, VBA

Awards

University of Toronto Scholar's Award

September 2023

ESF Chairman's Award for Academic Excellence

June 2023

ESF Sha Tin College Computer Science Book Award

June 2023

Top 8 Team in HK JUMPSTARTER Student Startup Competition

August 2021