Joshua Chou

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EDUCATION

University of Toronto — Mississauga, ON
Bachelor's of Science in Computer Science — *July 2024 – Present*

John Fraser Secondary School — Mississauga, ON
Ontario Secondary School Diploma (OSSD) — *September 2020 – June 2024*

EXPERIENCE

Web Developer — February 2024 – Present
FraserHacks — *Mississauga, ON*
- Spearheaded the launch of the official FraserHacks Hackathon website, successfully registering over 100 participants.
- Resolved compatibility issues across multiple platforms, optimizing the website for all users.
- Implemented a seamless and responsive user interface using Next.js, enhancing user experience with dynamic animations.

Coding Tutor — August 2022 – Present
Superprof — *Mississauga, ON*
- Assist college and coding bootcamp students six times weekly in completing their courses.
- Teach elementary students fundamental programming concepts by guiding them in creating basic programs.
- Ensure students fully understand code mechanisms and adhere to good programming practices.

Lead Web Developer — December 2021 – August 2022
Brookedge Academy — *Mississauga, ON*
- Developed and launched the Brookedge Academy Learn Chemistry app supporting transition to online learning for over 100 students during the pandemic
- Incorporated interactive quizzes and a point system for enhanced student engagement.
- Collaborated with administration to gather feedback and implement user-focused app features, improving student engagement.

AWARDS

Mississauga Open Data Hackathon - 4th Place overall, November 2024

Volunteer of the Year Award, Brookedge Academy, April 2023

Certificate of Distinction, Fermat Contest, February 2023

PROJECTS

Solar Index Map | *TypeScript, Leaflet, Heatmap.js* — November 2024
- Led a team of 5 to develop an interactive solar index heatmap, improving renewable energy decision-making
- Designed and implemented a dynamic heatmap to visualize open data in a user-friendly interface
- Achieved 4th place overall in the Mississauga Open Data Hackathon

Grade Genius | *Flask, JavaScript, SQL, AWS* — February 2023 – June 2023
- Designed and developed a full-stack web application to help John Fraser Secondary School students manage assessments and track grades for university preparation
- Published the application on the Amazon App Store, garnering nearly 100 downloads
- Configured and managed an AWS RDS database for secure, scalable storage of student assessment and grade data

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Golang, C++, Java, HTML/CSS, SQL (PostgreSQL, MySQL)
Frameworks: React, Next.js, Node.js, Flask, Tailwind, Gin, Express.js,
Developer Tools: Firebase/Firestore, MongoDB, SQL, Git, Visual Studio Code, Docker, GitHub Actions
Cloud Platforms: AWS, Google Cloud Platform