

Felix Fong

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Enthusiastic Web Developer with proficiency in project management, web design, competitive programming, and educating.

EXPERIENCE

Deltahacks

November 2022 – Present

Technical Executive

Hamilton, ON

- Integrated the website for Deltahacks, a 36-hour hackathon with 1000+ participants.
- Designed the website with React and Tailwind, leveraging ViteJS and Typescript for streamlined development.

McMaster Competitive Programming Club

August 2022 – Present

Vice President of Training

Hamilton, ON

- Formulated advanced data structures and algorithms learning material in anticipation for the **International Collegiate Programming Contest (ICPC)**.
- Directed live coding problems with concise explanations.
- Hosted an Intel sponsored competition with **\$150** in prize money and **35** participants.

McMaster Department of Computing and Software

May 2022 - August 2022

Research Assistant

Hamilton, ON

- Facilitated with implementing the **ChaCha20-Poly1305** encryption algorithm using **low level instructions**.
- Conceptualized a graphing tool to fit **600** data points to known probability distributions using **scipy** and **numpy**.

McMaster Start Coding

September 2021 – August 2022

Web Developer

Hamilton, ON

- Enhanced user experience on the McMaster Start Coding website and attracted **100+** new users.
- Optimized the ELM based website to reduce Google Lighthouse's Speed Index by **86%**.

Bur Oak Secondary School

November 2020 – June 2021

Executive and Data Structures and Algorithms Instructor

Markham, ON

- Spearheaded instructing a class of **60** students grades **9-12**.
- Designed class material in preparation for the **Canadian Computing Competition (CCC)**.

Longtech Computer Distributor

September 2019 – July 2020

Co-operative Education Student

Markham, ON

- Collaborated alongside the return merchandise manager to resolve customer complaints **56%** more efficiently.
- Catalogued products on **Microsoft Excel** based on category and size to streamline future shipments.

PROJECTS

Path Finding Sandbox | *Typescript, ReactJS, ViteJS, JSX, CSS*

August 2022 – Present

- Codeveloped a visually appealing and highly interactive **graph theory** path finding algorithm visualization tool.
- Designed to be exceptionally interactive with visually appealing animations and intuitive customization options.

TECHNICAL SKILLS

Languages: Typescript, Elm, HTML, CSS, C/C++, Python, Java, Haskell, SQL (MySQL, SQLite), XML, \LaTeX

Libraries and Frameworks: ReactJS, JSX, Bootstrap, Java Swing, Axios, NodeJS, ViteJS

Developer Tools: GitHub, Git, GitKraken, Jira, VSCode, JetBrains IDEs, Apache Maven, Linux, Google Cloud

EDUCATION

McMaster University | 4.0 GPA

September 2021 – April 2025

Candidate for Bachelor of Applied Science, Computer Science

Hamilton, ON

ACHIEVEMENTS

McMaster Faculty of Engineering – **Engineering Award of Excellence Scholarship (\$3000)** June 2021

Bur Oak Secondary School – **Award of Merit for Grade 12 Data Management** June 2021

Euclid Waterloo Math Contest – **Certificate of Distinction (Top 25%)** May 2021