

Felix Fong

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Enthusiastic Software Engineer with proficiency in leadership, web design, competitive programming, and educating.

EXPERIENCE

Intel Corporation

May 2023 – August 2024

Software Engineer - PEY Intern at Intel

Toronto, ON

- Spearheaded modern support for Post Synthesis STA in the **Intel Quartus Prime** software.
- Facilitated with SDC-on-RTL support for Liberty Mesa and newer families.
- Designed and implemented a software architecture to facilitate seamless data communication between different compilation stages with varying data structure representations and interfaces.

[Deltahacks](#)

November 2022 – Present

Technical Executive

Hamilton, ON

- Developed the schedule page for Deltahacks, fetching from google calendar's ics url for real-time hackathon events essential to **1000+** participants.
- Designed the landing page with React and Tailwind, leveraging ViteJS and Typescript for streamlined development.

McMaster Competitive Programming Club

August 2022 – April 2023

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 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%**.

PROJECTS

[Path Finding Sandbox](#) | *Typescript, ReactJS, ViteJS, JSX, CSS*

August 2022 – Present

- Codeveloped an aesthetic 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: C/C++, TCL, Perl, Typescript, Javascript, Elm, HTML, CSS, Python, Java, Haskell, SQL, \LaTeX

Libraries and Frameworks: ReactJS, JSX, Tailwind, Bootstrap, Java Swing, shadcn/ui, Prisma ORM, Axios, NodeJS, ViteJS, MongoDB, Payload CMS

Developer Tools: GitHub, Git, Jira, Perforce, Linux, Apache Maven, Google Cloud

EDUCATION

McMaster University | **3.7 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