

Felix Fong

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

EXPERIENCE

McMaster University

Teaching Assistant

Incoming Jan 2025

Hamilton, ON

Intel Corporation

Software Engineer - PEY Intern at Intel

May 2023 – August 2024

Toronto, ON

- Collaborated in a cross-functional team in the Programmable Solutions Group (PSG) to develop Intel Quartus Prime Software using **C++**, **Python**, **Perl**, and **TCL**.
- Created a scalable software abstraction layer enabling cross subsystem API integration, providing the necessary framework to address a critical bug and support future extensibility.
- Enhanced design validation by introducing new netlist legality checks and analytics report.
- Drove a substantial increase in developer productivity by pioneering a new internal framework that streamlined the implementation of key features across projects.
- Received praise for creating comprehensive project documentation and fostering an inclusive work environment.

Deltahacks

Technical Executive

November 2022 – Present

Hamilton, ON

- Redesigned a legacy relational database schema leveraging **prisma ORM**, **Netlify functions stack**, and **TRPC** to scale the backend to handle **10 000+ requests** throughout the year.
- Developed the grading portal, streamlining the evaluation process of **1365 applicants** by leveraging **React**, **Tailwind** and **shadcn/ui**.
- Designed and implemented the schedule page that successfully managed **1522 sessions over 3 days**, resulting in improved participant experience and smoother event coordination.

McMaster Competitive Programming Club

Vice President

August 2022 – April 2023

Hamilton, ON

- Taught advanced data structures and algorithms in Python in anticipation for the **International Collegiate Programming Contest (ICPC)**.
- Hosted an Intel sponsored competition resulting in **35** participants.

McMaster Department of Computing and Software

Research Assistant

May 2022 - August 2022

Hamilton, ON

- Facilitated with implementing an encryption algorithm using **Haskell**.
- Created a data analysis tool that fits **600** data points to probability distributions to identify key insights utilizing **scipy** and **numpy** libraries.

PROJECTS

Path Finding Sandbox | *Typescript, ReactJS, ViteJS, Tailwind*

August 2022 – Present

- Developed a **graph theory** path finding visualization tool to visualize **6** algorithms

TECHNICAL SKILLS

Languages: C/C++, TCL, Perl, Typescript, Javascript, HTML, CSS, Rust, Elm, Python, Java, Haskell, Bash, SQL

Libraries and Frameworks: ReactJS, JSX, Tailwind, NextJS, 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 | **3.9 GPA**

September 2021 – April 2026

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