

# Felix Fong

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

## EXPERIENCE

### Deltahacks

November 2022 – Present

*Technical Executive*

*Hamilton, ON*

- Streamlined hackathon evaluation process by creating a comprehensive review table, enabling efficient grading of **1365** participants by leveraging **shadcn/ui** and **prisma ORM**.
- Optimized Google Lighthouse's performance score by **324%** from the previous year's review page by improving database architecture.
- Facilitated event scheduling by developing a robust schedule page that successfully managed **1522** sessions over **3** days, resulting in improved participant experience and smoother event coordination.

### Intel Corporation

May 2023 – August 2024

*Software Engineer - PEY Intern at Intel*

*Toronto, ON*

- Collaborated on Quartus Static Timing Analysis (STA) and Synopsis Design Constraints (SDC) for Field Programmable Gate Arrays (FPGA).
- Proposed and developed a graph propagation algorithm improving the reliability of **11** SDCs by designing a system wide software architecture impacting **6** subsystems in C++.
- Facilitated in removing **2562** lines of technical debt resulting in improved developer productivity.

### McMaster Competitive Programming Club

August 2022 – April 2023

*Vice President of Training*

*Hamilton, ON*

- Taught advanced data structures and algorithms in Python in anticipation for the **International Collegiate Programming Contest (ICPC)**.
- Hosted an Intel sponsored competition for **\$150** in prize money resulting in **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 **Haskell**.
- Improved data analysis capabilities by developing a graphing tool that fits **600** data points to probability distributions utilizing scipy and numpy libraries.

### McMaster Start Coding

September 2021 – August 2022

*Web Developer*

*Hamilton, ON*

- Enhanced user experience on the McMaster Start Coding website and attracted **119** new users.
- Optimized the ELM based website to reduce Google Lighthouse's Speed Index by **86%**.

## PROJECTS

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

August 2022 – Present

- Developed a **graph theory** path finding visualization tool

## TECHNICAL SKILLS

**Languages:** C/C++, TCL, Perl, Typescript, Javascript, Elm, HTML, CSS, Python, Java, Haskell, SQL,  $\text{\LaTeX}$

**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