# Felix Fong

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## EDUCATION

**McMaster University | 3.8 GPA**  September 2021 – April 2026
*Candidate for Bachelor of Applied Science, Computer Science*  *Hamilton, ON*

## EXPERIENCE

**McMaster University**  Incoming Jan 2025
*Teaching Assistant*  *Hamilton, ON*
- Conducting live classroom instruction to **500+** students on Automata and Computability.

**Intel Corporation**  May 2023 – August 2024
*Software Engineer - PEY Intern at Intel*  *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 developing new netlist legality checks and analytics report.
- Drove an increase of **90% 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.

**Datacurve**  December 2024 – Present
*Project Code Quality Lead*  *Hamilton, ON*
- Spearheaded data governance and quality standards for **2000+ technical contributors**, impacting **multi-million dollar** LLM training operations leveraging expertise in C++, Python, Java, and JavaScript.
- Received praise from the CTO for high quality code reviews and innovative ideas that improved review quality and productivity.
- Led investigations into review quality, revising 29 rejected data points and creating new reviewer guidelines.

**Deltahacks**  November 2022 – Present
*Technical Executive*  *Hamilton, ON*
- Redesigned a legacy relational database schema to scale the backend to handle **10 000+ requests** throughout the year by leveraging **prisma ORM, Netlify functions stack, and TRPC**.
- Developed the grading portal, streamlining the evaluation process of **1365 applicants** by utilizing **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 Department of Computing and Software**  May 2022 - August 2022
*Research Assistant*  *Hamilton, ON*
- Facilitated with implementing an encryption algorithm in **Haskell**, resulting in a mention in an internal paper.
- 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**: Python, C++, Typescript, Java, Javascript, HTML, CSS, Rust Java, C, Perl, Elm, Haskell, Bash, SQL

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

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