

Felix Fong

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EDUCATION

McMaster University | 3.8 GPA

Candidate for Bachelor of Applied Science, Computer Science

September 2021 – April 2026

Hamilton, ON

EXPERIENCE

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 across 6 subsystems, 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.

Deltahacks

Technical Executive

November 2022 – Present

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**.
- Led development of the Deltahacks IX landing page, attracting **1300+ applicants** by utilizing **React, Tailwind and shadcn/ui**.
- Developed the grading page, streamlining the evaluation process of **1300+ applicants**.
- Implemented the schedule page, driving event organization for **600+ attendees and team members**.

McMaster University

Teaching Assistant

Jan 2025 - Present

Hamilton, ON

- Conducting live classroom instruction to **300+ students** on Automata and Computability.
- Redesigned lesson plans to enhance classroom engagement by **50%**.

Datacurve

Project Code Quality Lead

December 2024 – Present

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.
- Led investigations into review quality, revising 58 rejected data points and creating new reviewer guidelines.
- Ideated innovative ideas that improved review quality and productivity by 20% across 8 reviewers.

McMaster Department of Computing and Software

Research Assistant

May 2022 - August 2022

Hamilton, ON

- Facilitated with implementing an encryption algorithm in **Haskell**, resulting in 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

Ani-List | Java, Java Swing, Unirest, Apache Maven

July 2021

- Designed a social cataloging application for users to search, score, and save their anime preferences using the **Java Swing** Framework.
- Conceptualized a unique recommendation algorithm to interactively advertise up to **100 anime** concurrently.
- Implemented a serializer and deserializer to save and load anime preferences.

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