Felix Fong

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EXPERIENCE

McMaster University   Incoming Jan 2025
Teaching Assistant   *Hamilton, ON*

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 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.

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