

Felix Fong

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Enthusiastic Web Developer with proficiency in project management, web design, competitive programming, and educating.

EXPERIENCE

- McMaster Competitive Programming Club** August 2022 – Present
Vice President of Training Hamilton, ON
- Formulated advanced data structures and algorithms learning material in anticipation for the **ICPC**.
 - Directed live coding problems with concise explanations.
- McMaster Department of Computing and Software** May 2022 - August 2022
Research Assistant Hamilton, ON
- Facilitated with implementing the ChaCha20-Poly1305 encryption algorithm using low level instructions.
 - Conceptualized a graphing tool to fit **600** data points to known probability distributions using **scipy** and **numpy**.
- McMaster Start Coding** September 2021 – August 2022
Web Developer Hamilton, ON
- Enhanced user experience on the McMaster Start Coding website and attracted **100+** new users.
 - Optimized the ELM based website to reduce Google Lighthouse's Speed Index by **86%**.
- Bur Oak Secondary School** November 2020 – June 2021
Executive and Data Structures and Algorithms Instructor Markham, ON
- Spearheaded instructing a class of **60** students grades **9-12**.
 - Designed class material in preparation for the **Canadian Computing Competition (CCC)**.
- Longtech Computer Distributor** September 2019 – July 2020
Co-operative Education Student Markham, ON
- Collaborated alongside the return merchandise manager to resolve customer complaints **56%** more efficiently.
 - Catalogued products on **Microsoft Excel** based on category and size to streamline future shipments.

PROJECTS

- [Path Finding Sandbox](#)** | *ReactJS, JSX, CSS* August 2022 – Present
- Co-authored to visualize various path finding algorithms.
 - Designed to be exceptionally interactive with intuitive customization options.
- [Data Mining Project](#)** | *Java, Java Swing* May 2021
- Processed and organized over **119 000** cells of data from Open Markham Database to analyze patterns about infrastructure in York Region.
 - Designed components on the client-side with the **JFreeChart library** and the **Java Swing Framework**.

TECHNICAL SKILLS

Languages: Javascript, Elm, HTML, CSS, C/C++, Python, Java, Haskell, SQL (MySQL, SQLite), XML, \LaTeX
Libraries and Frameworks: ReactJS, JSX, Bootstrap, Java Swing, Axios, NodeJS
Developer Tools: GitHub, Git, GitKraken, Jira, VSCode, JetBrains IDEs, Apache Maven, Linux, Google Cloud

EDUCATION

McMaster University | **4.0 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