

Fred Hong

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EDUCATION

York University | Toronto, ON

Sept 2020 – Aug 2025

Honors Bachelor of Science in Computer Science

Relevant Coursework: Data Structures, Computer Organization, Database Systems, User Interface, Advanced OOP Programming

SKILLS

Languages: JavaScript, Python, Java, HTML/CSS, SQL, C/C++,

Tech/Tools: React, Django, Tkinter, Tailwind CSS, MUI, MySQL, MongoDB, Jira, Trello

WORK EXPERIENCE

Full-Stack Developer Intern | LDRS Investments Inc | Toronto, ON

Jan 2023 – April 2023

- Successfully improved the efficiency of performing administrative tasks by 30% from implementing an automated admin software using **Django** and **React**
- Developed RESTful APIs for authentication and security features using Django and **SQLite** to increase flexibility with accessing permissions and acquiring data securely
- Constructed UI elements using **React** following core design principles to refine web functionality and user-management processing for company executives
- Verified expected behavior and code correctness using over 30 automated test cases, enhancing productivity by over 25%

Computer Science Tutor | Self-Employed | Toronto, ON

Aug 2021 – May 2022

- Coached technical and professional development for 30+ high school students interested in computer science
- Composed 32 weekly informative lessons on web development fundamentals on algorithms, **HTML**, **CSS**, and **JavaScript**, strengthening students' understanding and application of complex material
- Provided additional support for students enrolled in Grade 11 and 12 Computer Science courses on **Java structures**, **discrete math** and **debugging techniques**
- Spearheaded an academic and career support information session for 20+ students on key resources for applying to post-secondary education in Computer Science

ADDITIONAL EXPERIENCE

Technician Officer | Brain Changes Initiative | Toronto, ON

Jan 2022 – Apr 2022

- Delivered **technical support** and setup for all hardware and software applications utilized by 6 club members and executives
- Prototyped the club's main website to highlight upcoming workshops and deadlines, achieving over 150 monthly visitors
- Led fundraising events to support survivors of traumatic brain injury (TBI) by hosting weekly long-distance runs with an average turnout of 25 participants and over \$500 raised

PROJECTS

OpenAI Article Summarizer

- Developed an AI using **React** to summarize research and newspaper articles after extraction from the specified URL
- Utilized an Article Extractor API from RapidAPI that extracts the article and GPT to summarize the content provided

Footwear E-Commerce Application

- Programmed a **MERN Stack** e-commerce application, incorporating the ability for users to add or products in a cart and a payment platform using **Stripe** for efficient payment processing
- Applied **react-redux** and local storage to create a login/sign-up functionality for users to create accounts for their orders

Event Management System

- Designed a stored database system using **SQL query statements** for users to efficiently organize conference events
- Incorporated **Swing (Java)** to produce the GUI and provide listener functions that can be invoked through user's input