Fred Hong

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EDUCATION

York University | Toronto, ON
Honors Bachelor of Science in Computer Science   **Sept 2020 – Aug 2025**
Relevant Coursework: Data Structures, Computer Organization, Database Systems, Machine Learning,
Advanced OOP Programming, Linear Algebra, Discrete Mathematics

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C, C++
Tech/Tools: React, HTML, CSS, Django, Tkinter, MUI, Git, MySQL, MongoDB

WORK EXPERIENCE

Full-Stack Developer Intern | LDRS Investments Inc | Toronto, ON   **Jan 2023 – April 2023**
- Built RESTful APIs for the foundations of a service that automates administrative tasks for business processes and management capabilities using **Django**
- Developed services and APIs for authentication and security features using Django and **SQLite** to increase flexibility with access permissions, and ensuring security while acquiring data
- Implemented UI elements using **React and Typescript** in adherence to design guidelines; an executive dashboard to process user-management

Computer Science Tutor | Self-Employed | Toronto, ON   **Aug 2021 – May 2022**
- Developed career communications and professional development for high school students pursuing computer science in post-secondary
- Instructed on web development fundamentals using **HTML**, **CSS**, and **JavaScript** through zoom sessions, and meetings
- Taught programming fundamentals, including functions and basic data structures, in **Java**, to over 30 introductory computer science students to foster technical development
Additional Fundamentals: Calculus I, Discrete Mathematics, Object-Oriented Programming, Computational Logic

ADDITIONAL EXPERIENCE

Technician Officer | Brain Changes Initiative | Toronto, ON   **Jan – Apr 2022**
- Provided technical support and setup for all hardware and software application utilized by club members and executives
- Booked, set up, and operated all equipment used during club meetings and events
- Maintained and operated club website with up-to-date information

PROJECTS

OpenAI Article Summarizer
- Developed an AI using **React (JavaScript)** to summarize articles after extracting it from the specified URL
- Utilized an Article Extractor API from RapidAPI that extracts the article, and uses GPT to summarize the content

Footwear E-Commerce Application
- Built a **MERN** Stack e-commerce application, implementing the ability to add or edit shoe products in a cart, checkout functionalities, and finally, integrating a payment process platform with **Stripe**
- Used **react-redux** and local storage to implement a login/sign-up functionality for users to create accounts for their orders

Event Management System
- Developed an application where users may insert or remove an event type (conference, journal or book) with its corresponding name, event id, and date, and store it into a database using **MySQL**
- **Swing (Java)** is used to produce the GUI and provide listener functions that can be invoked through user's input
- Acquire database results by executing insert and select query statements on tables, and displaying it on the GUI