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, SQL, 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%, by 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** in adherence to design guidelines to enhance and fix web functionality and user-management processing
- Verified expected behavior and code correctness using over 30 automated test cases, improving productivity by over 25%

Computer Science Tutor | Self-Employed | Toronto, ON **Aug 2021 – May 2022**
- Instructed 30+ high school students pursuing computer science to foster technical and professional development
- Composed engaging lessons on web development fundamentals such as **JavaScript** through zoom sessions, to strengthen students' understanding of complex material, and lesson preparation
- Assisted students with understanding basic **Java** data structures, and **debugging** techniques
- Led academic and career advisement services that helped 20+ students apply to post-secondary schools
Additional Fundamentals: Calculus I, Discrete Mathematics, Object-Oriented Programming, Computational Logic

ADDITIONAL EXPERIENCE

Technician Officer | Brain Changes Initiative | Toronto, ON **Jan 2022 – Apr 2022**
- Provided technical support and setup for all hardware and software application utilized by club members and executives
- Maintained and operated club website with up-to-date information about upcoming workshops and deadlines
- Constructed creative and innovative events that helped expand awareness and increase fundraises by over 15%

PROJECTS

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

Footwear E-Commerce Application
- Built a **MERN** Stack e-commerce application, implementing the ability for users to add or products in a cart
- Integrated a payment platform using **Stripe** to allow efficient payment processing when checking out
- 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 organize an event by storing it into a database using **SQL** query statements
- **Swing (Java)** is used to produce the GUI and provide listener functions that can be invoked through user's input