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Skills ____

Programming Languages: TypeScript/JavaScript, Python, Go, PHP, Ruby, Bash, SQL, HTML, CSS, Sass

Web/Frameworks: React, Redux, Node.js, Express, Next.js, Vue.js, Ruby on Rails, PostgreSQL, MongoDB, Redis, React Native

Tools: Git, Jest, Jenkins, Docker, Agile, Scrum

Languages: English (fluent), French (intermediate), Mandarin Chinese (intermediate)

Experience __

IBM Markham, ON May 2020 - Aug 2021

Software Developer Intern

- · Maintained and developed an internal web application for business analytics and headcount reporting used by 500+ concurrent users, built using TypeScript, React, Node.js, Express, and SQL
- Developed **time management** and **prioritization** skills, and thrived in a high pressure environment by completing a major project on time where the deadline was moved forward at the last minute
- · Improved administration efficiency by implementing a new access control management and validation system to streamline and reduce human error, leading to savings of more than 10 hours of manual work each month in user access management
- · Headed the implementation of adding unit and integration tests into team's development workflow and integrating them into CI/CD pipeline using **Jest** and **Jenkins**, resulting in increased confidence in production-ready code and fewer uncaught bugs
- Mentored a team of 4 interns through pair programming, code reviews, and technical lessons
- Optimized inefficient SQL queries, resulting in 80% decrease in average server response time

Verto Health Toronto, ON

Full Stack Developer Intern

Sep. 2019 - Dec. 2019

- Spearheaded the product development of a new mobile application using **React Native** and **Ruby on Rails**, with a strong emphasis on delivering an excellent UI/UX for the client and implementing a well-designed RESTful API for future scalability
- Developed **Python** script to automate parsing and manipulation of large JSON files with more than 10,000 lines, saving developers over 20 hours of inefficient manual work
- · Communicated and collaborated with a multi-disciplinary teams of developers, designers, and product managers on a daily basis in an Agile environment

Education _____

University of Toronto

Sep. 2018 - Present

Honours Bachelor of Science, Computer Science, Co-op

- Expected Graduation Date: **December 2022**
- GPA: 3.98/4.0
- University of Toronto President's Scholar of Excellence
- Dean's List 2018-2020

Projects _____

Code Cube code-cube.garyxie.me

Go, MongoDB, React, TypeScript

An online front-end development live code editor for prototyping with HTML, CSS, and JavaScript

• Implemented authentication using Google and Github **OAuth** providers

Video Chat App

video-chat.garyxie.me

Jul. 2021 - Aug. 2021

Jun. 2021 - Aug. 2021

React, TypeScript, Next.js, Socket.io, WebRTC, Tailwind CSS

- A web application to communicate with others online via video chat
- · Leveraged WebSocket and WebRTC protocols to create a fast and seamless real-time video and audio sharing experience