

Gary Xie

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Experience

IBM

Software Developer Intern

Markham, ON

May 2020 - Present

- Decreased server response time by over **80%** by optimizing inefficient and unnecessarily complex SQL queries, resulting in significant improvements to average page load time
- 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
- Proposed and headed the implementation of adding unit and integration tests into team's development workflow and integrating them into CI/CD pipeline using **Jenkins**, resulting in increased confidence in production-ready code and fewer uncaught bugs

Verto

Full Stack Developer Intern

Toronto, ON

Sep. 2019 - Dec. 2019

- Spearheaded in a team of 2 the 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 clean and 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 unproductive and inefficient manual work
- Communicated and collaborated with multi-disciplinary teams of developers, designers, and product managers on a daily basis in an **Agile** environment

Technical Skills

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

Front-end React, Redux, Next.js, React Native, Vue, Tailwind CSS

Back-end Node.js, Express.js, PostgreSQL, MongoDB, Redis

Other Git, Jest, Jenkins, Docker, Agile

Education

University of Toronto

Honours Bachelor of Science, **Computer Science**, Co-op

Sep. 2018 - Present

- University of Toronto President's Scholar of Excellence
- Dean's List 2018-2020
- CGPA: **3.98/4.0**

Projects

Code Cube

Go, MongoDB, React, TypeScript

code-cube.garyxie.me

Jun. 2021 - Aug. 2021

- 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

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

video-chat.garyxie.me

Jul. 2021 - Aug. 2021

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