Gary **Xie**

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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*
Software Developer Intern   *May 2020 - Aug 2021*

- 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   *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   video-chat.garyxie.me
React, TypeScript, Next.js, Socket.io, WebRTC, Tailwind CSS   *Jul. 2021 - Aug. 2021*

- 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