

# Yixin Qian

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## EDUCATION

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- **University of British Columbia** Vancouver, BC  
*Bachelor of Computer Engineering* September 2017 – May 2022
  - **Overall Grade Average:** 89%
  - **Relevant Coursework:** Principles of Software Construction (Java), Digital Systems Design, Algorithm Design and Analysis, Project Management Skills, Cybersecurity, Deep Learning

## EMPLOYMENT

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- **IBM** Ottawa, On  
*Software Developer Intern* May, 2020 – August, 2021
  - **Web Development:** Developed a DevOps tool named Test Result Summary Service using ReactJS and NodeJS to monitor nightly & release builds and assist developers in addressing failed tests
  - **Automation Pipeline:** Supported parallelization in Jenkins to divide test cases into smaller builds and execute them concurrently which achieved a balanced load and optimal overall testing throughput
  - **Dockerization:** Dockerized DevOps tool into three containers and pre-inserted sample data so users can start the application with a single command
  - **Presentation:** Demonstrated and introduced new features of DevOps tool at weekly OpenJ9 Community Call to help developers from IBM, Microsoft and Redhat monitor test pipelines more easily
- **Wonders Information Co., Ltd.** Shanghai, China  
*Full Stack Developer Intern* May, 2019 – August, 2019
  - **Web Development:** Utilized distributed system framework Dubbo to implement sales control chart, client filtering system, financial center and contract downloading functionality based on Spring Boot, Poi, Vue.js
  - **Code Optimization:** Resolved issues of HTTP requests with poor time performance by examining each layer of server end, optimizing SQL(Mybatis) and generating more efficient data structure
  - **Interface to External Service:** Devised a microservice module to interact with Alibaba Cloud Service(OSS), allowing administrator to upload documents with specific access key and signature
  - **Teamwork:** Cooperated with front end developers to specify implementation of API in great detail. Adjusted API documentation in time and communicated with colleagues when changes were made

## SELECTED PROJECTS

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- **Access Youth App** UBC LaunchPad  
*iOS Developer* September, 2019 – May, 2020
  - **Communication:** Arranged meetings with the stakeholders under agile development guidelines to better verify and validate requirements within given timeline
  - **iOS Development:** Utilized Mapkit to track location of service and client. Handled HTTP requests with a resolver to have multiple versions of network stack, supporting app with offline mode
  - **Backend Development:** Developed server end using typescript and MongoDB to store and broadcast counsellor's location to hundreds of youth in need in the tri-cities area

## OTHER WORKING EXPERIENCE

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- **UBC Department of Mathematics** UBC  
*Undergraduate Teaching Assistant* September, 2019 – Present
  - **Facilitation:** Facilitated workshops with another TA to provide assistance for first-year students, encouraged students to engage in teamwork
  - **Responsibility:** Reported the attendance and grade sheets to Head TA weekly, prepared for each workshop and fixed typos of sheets in advance

## PROGRAMMING SKILLS

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- **Languages:** Java, C, C++, Python, Groovy, MATLAB, TypeScript, JavaScript
- **Technologies:** Spring Boot, MySQL, MongoDB, Mybatis, Bootstrap, Vue.js, Node.js, Nginx, Docker