

# 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
  - **Co-op:** Completed 1/5 work terms, 6 of 8 academic terms completed. Available 12 months starting January 2020

## SELECTED EMPLOYMENT

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- **Wonders Information Co., Ltd.** Shanghai, China  
*Full Stack Developer Intern* May, 2019 – August, 2019
  - **Web App Development:** Utilized distributed system framework Dubbo to implemented sales control chart, client filtering system, financial center and contract downloading functionality based on Spring Boot, Poi, Vue.js and Docker
  - **Code Optimization:** Resolved issues of HTTP requests with bad 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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- **Dancing Biped Robot** UBC  
*Software Developer* February, 2019
  - **Collaboration:** Collaborated with three teammates to implement six different basic dancing movements by assigning angles, corresponding music notes and LED patterns to each state of robot
  - **Extension:** Generated additional functionality of voice recognition by interfacing with Google speech-to-text API, leverage non-blocking ability of the pyaudio library to record audio and send it to Google on fly
  - **Presentation:** Presented and demonstrated project to peer reviewers and instructors to clearly show concepts and detailed implementation with five teammates
- **Access Youth App** UBC LaunchPad  
*iOS Developer* September, 2019 – Present
  - **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, C#, MATLAB, TypeScript, JavaScript,  $\text{\LaTeX}$
- **Technologies:** Spring Boot, MySQL, MongoDB, Flask, Microservices, Mybatis, Bootstrap, Vue.js, AngularJS, Node.js, Nginx, Redis, Docker, Microsoft Azure