

# Kexin (Charlotte) Zhu

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## WORK EXPERIENCE

### Web Developer Intern, Form Swim

Aug– Dec 2019

- Full-stack feature development for internal developer tool using Node.js and Vue.js.
- Designed and implemented REST APIs that interface with client-side mobile apps.
- Developed social media feature for promoting sponsored athletes, increasing user engagement with sponsored users by 30%.
- Implemented heart-rate monitoring syncing feature allowing users to view analytics on their swimming heartrate from the smart swim goggles and mobile app.
- Refactored Mocha integration tests and improved execution speed by 10%.

### Software Developer Intern, Change Healthcare

Jan – Aug 2019

- Developed new features and maintained old versions for a medical imaging workflow web app with ASP.NET backend and MySQL database.
- Implemented and debugged clinical data transfer configuration tool, ensuring successful messaging between clinical web apps.

### Software Developer Internship, Sogou Inc

May – Aug 2018

- Android development for youth safety and communication mobile application.
- Implemented UI design features to scan QR codes for pairing with smart watches.
- Updated pairing screen view for connecting Android app to smart watch.
- Performed QA for picture and voice functions of Sogou translator device.

## PROJECTS

### Minutizer Transcription Web App (HSBC sponsored)

Jan 2020

Typescript, React.js, Google Cloud Platform

- A full stack web app that transcribes audio and generate meeting minutes.
- Designed microservice architecture backend and deployed to Google Cloud Platform.

### Sorting Algorithm Visualizer

Dec 2019

Javascript, React.js

- A single page visualization of different sorting algorithms.

### InsightUBC Web App

Dec 2018

Typescript, Node.js

- A full stack web app with a query engine that filters UBC courses and buildings.
- Implemented the backend using Node.js and frontend using JavaScript and HTML. Adapted the project to provision REST endpoints.
- Parsed HTML and JSON data according to queries and enabled result computation. Used Mocha Test Environment with Chai Expectations for black box testing.

### Android Camera and Gallery App

Dec 2018

Java

- An Android app for taking photos with filters and viewing media files.
- Used Android Camera API for auto-adjustment of resolution and adjustable resolution.
- Used WeChat API to allow users to share photos or send them to chats on WeChat.

### BusRUs Android App

Dec 2016

Java

- An Android app for the Vancouver Translink system to help users find buses and bus stops on a 2D map by parsing JSON data and plotting using Google Map API.

## EDUCATION

University of British Columbia  
BSc Mathematical Sciences  
Sep 2015 – May 2020

## SKILLS

### Languages

Java  
JavaScript  
TypeScript  
HTML/CSS  
Python  
C#

### Frameworks

Node.js  
Express.js  
React.js  
Vue.js  
ASP.NET

### Tools/Technologies

Git/Github  
MySQL  
VisualStudio  
IntelliJ  
Android Studio  
Matlab

## AWARDS

- UBC  
Outstanding International Student Award Scholarship
- College Board  
Advanced Placement Scholar with Distinction
- Camford School  
Excellence Award Scholarship