Kexin (Charlotte) Zhu

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WORK EXPERIENCE

Web Developer Intern, Form Swim   Aug– Dec 2019
- Implemented Rest API endpoints with Node.js that interfaces with swim metrics mobile apps and website.
- Completed heart-rate integration with Polar OH1 and heart-rate calculation functions.
- Designed and developed new features for the administrator website built with Vue.js.
- Refactored 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.
- Participating in sprint and daily Scrum meetings, and contribute to product ideas and quality improvement.

Software Developer Internship, Sogou Inc   May – Aug 2018
- Performed QA for picture and voice functions of Sogou translator device.
- Upgraded UI and developed picture grading function of Teemo Android app.
- Upgraded the display of connection between the app and Teemo smart watches.

PROJECTS

Minutizer Transcription Web App (HSBC sponsored)   Jan 2020
- A full stack web app that transcribes audio and generate meeting minutes.
- Built with microservice architecture back end hosted on Google Cloud Platform.
- Node.js backend and React.js frontend.

Sorting Algorithm Visualizer   Dec 2019
- A single page visualization of different sorting algorithms built with React.

ZootopiApp Relational Database Project   Dec 2018
- Designed RDBMS for staff to access animal, food, performance and responsibilities.
- Built GUIs with Swing for different user types (managers and trainers).

InsightUBC Web App   Dec 2018
- A full stack web app with a query engine that filters UBC courses and buildings.
- Implemented the backend using Node.js and TypeScript 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
- An Android app for taking photos with filters and viewing media files.
- Used Android Camera API for auto-adjustment of resolution and adjustable resolution.
- Displays thumbnails from Android MediaStore in different formats.
- Used WeChat API to allow users to share photos or send them to chats on WeChat.

BusRUs Android App   Dec 2016
- 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
React.js
Vue.js

Tools/Technologies
Git/Github
MySQL
VisualStudio
IntelliJ
Android Studio
Matlab

AWARDS

- Outstanding International Student Award Scholarship - UBC (Sep 2015)
- Advanced Placement Scholar with Distinction – College Board (Jul 2014)
- Excellence Award Scholarship – Camford School (Sep 2013)