REGINA LAI

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TECHNICAL SKILLS

Languages	JavaScript, Java, TypeScript, C++
Tools/Frameworks	Node.js, Angular, MySQL, GWT, Maven, Jenkins, Git, SVN

RELATED WORK EXPERIENCE

Full-stack Developer (Co-op)
WelTel Incorporated
May 2018 – Aug 2018

- Improved stability of the web-application platform in delivering text messages to patients using Node.js and the Twilio API
- Developed a new feature allowing patients to choose different messaging frequencies for receiving checkup notifications both in the backend and frontend using Node.js and Angular
- Created data migration scripts to update old database structures to the newest database structure

Junior Developer (Co-op)
Jostle Corporation
Sep 2017 – Dec 2017

- Developed a process to automate the creation of a component that required parsing of a RSS feed and the use of Java, Maven, and the GWT web toolkit
- Established good technical communication skills through the participation of daily scrums and technical documentation
- Fixed bugs posted on JIRA using Java and CSS

TECHNICAL PROJECTS

insightUBC (Academic)
Jan 2018 – April 2018

- Completed the functionality of a full stack web application that enables effective querying of real metadata about UBC courses and rooms using TypeScript and Node for the back-end, and JavaScript for the front-end

Mystery Box Java Applet (Academic)
Feb 2018 – April 2018

- Created an applet using Java/JDBC and Oracle in a group of 4 that allows customers to view and subscribe to mystery box subscriptions, and for employees to view/edit customer and subscription data
- Designed the code architecture using the MVC design pattern. Devised the database structure

2D Block Breaker Game (Personal)
Apr 2017 – July 2017

- Developed a single-player PC game from scratch using C# in Unity and employing the observer design pattern

EXTRACURRICULAR ACTIVITIES

nwHacks
Jan 2018

- Created a progressive web application in a group of 5 within 24 hours that provides real-time feedback of your performance during presentations
- Front-end was built with React, JavaScript, CSS/HTML. StdLib was used to provide multiple functional endpoints communication with the back-end. Data was managed using Amazon DynamoDB

AxiomZen & BCS Hackathon
Mar 2017

- Developed a web application in a group of 3 within 10 hours that aimed at helping people experiencing negative emotions with raising their spirits
- Implemented the logic using JavaScript, HTML, and CSS that displayed a series of videos, music, pictures, and text

OTHER WORK EXPERIENCE

Undergraduate Teaching Assistant
UBC
Jan 2019 – current

- Managed laboratory sections of 28 students for an introductory programming class
- Mentored students on fundamental program and computational structures

Note taker
UBC Access and Diversity
Sep 2011 – Apr 2017

- Organized detailed notes in a neat and orderly fashion for differential calculus, two genetics courses, a computer science class, two psychology courses, and statistics

Research Lab Assistant
Life Sciences Institute
Sep 2014 – Apr 2016

- Analyzed RNA sequence data for novel genes that are expressed in a parent-of-origin specific manner
- Designed independent experiments to investigate the expression of a protein in cells using molecular biology techniques
- Compiled and presented data during weekly lab meetings

COMMUNITY INVOLVEMENT

Graphic Designer
Dec 2016 – Mar 2017

- Designed a logo using Adobe Illustrator and Photoshop to be used for the 2018 C. *elegans* SPASM meeting

EDUCATION

University of British Columbia
Expected Graduation: 2019

Bachelor of Computer Science

University of British Columbia
Class of 2016

Bachelor of Science – Major in Biochemistry
- NSERC Student Research Award
- GSA Undergraduate Travel Award