

Johnson Lu

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Education

University of British Columbia

BSc in Computer Science

Vancouver, BC

Sept 2018 – Dec 2023

Technical Skills

Programming Languages: Java, JavaScript, HTML, CSS, TypeScript, C++, Python, SQL

Libraries and Frameworks: Node.js, MongoDB, Express.js, React, Redux, Junit, MySQL

Tools: GitLab, Atlassian, Docker, Postman, Insomnia

Work Experience

Steamoji

STEM Instructor

Vancouver, BC

November 2023 - Present

- Instructed aspiring STEM majors of ages 5-18 through coding and robotics project courses, teaching up to 20 students at a time

Smile Digital Health (Formerly Smile CDR)

Software Developer - Co-op (Java)

Toronto, ON

Sept 2021 - Aug 2022

- Improved the company's codebase by modifying and debugging backend database procedures responsible for processing API-generated data inputs before their transmission to the backend database
- Implemented tests using JUnit and Mockito to increase testing coverage for both existing and newly implemented code
- Utilized Postman to investigate API requests and perform root cause analysis in response to customer-reported bugs, enabling the creation of steps of reproduction
- Formulated comprehensive design documents aimed at facilitating clear comprehension of our team project by both clients and new team members

Projects

KnowlEdge (Full Stack MERN Project)

May 2023 - Aug 2023

- Developed a learning management webpage with the use of MERN stack such that students and instructors can effectively manage their courses and communicate amongst members of the same course
- Created multiple user responsive pages with the use of JavaScript (React, Redux), HTML and CSS
- Implemented database with the use of MongoDB to manage individual course data, user information and communicative interactions between users
- Utilized Express.js as a middleware such that user interactions in the frontend are successfully routed to MongoDB

Stock Tracker (Java Application)

June 2021 - July 2021

- Developed application which takes user input to keep track of the total price of their stock portfolio using API calls and JSON conversion
- Implemented API calls to RapidAPI whose returning JSON is used to grab the closing market value of individual stocks
- Successfully implemented GUI through Swing giving user the ability to add and modify their stock portfolio

League of Legends Database (Java/MySQL Application)

Feb 2021 - Apr 2021

- Developed League of Legends Database which enables user to personally add, remove and modify existing tables within a database
- Implemented Java/JDBC program with Embedded SQL such that the user can quickly access the commands needed to modify the database within the SQL server