David Murgulet

4th Year Computer Science Major

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, CSS, HTML, PHP
Tools/Frameworks: Git, Docker, IntelliJ, VSCode, React, Node.js, Vue.js, MongoDB
Testing: JUnit, GDB, Mocha

PROJECTS

InsightUBC   September 2023
- Executed **Test Driven Design** for both black box and glass box testing using **Mocha** and **Chai** to develop a strong test suite
- Incorporated **Agile** process with a partner for a cohesive and effective approach to project delivery
- Utilized **JSZip** and parse5 to access files and parse data to recover wanted information
- Implemented a **RESTful** server to query parsed information based on user inputs and display desired data to user
- Developed a full stack website using **TypeScript** and **React** to query files containing course and room information within UBC

HackBase   April 2023
- Designed a hackathon **DBMS** using **PHP** to manage all hackathon properties and query hackathon information based on user inputs
- Used **SQL** to implement multiple database tables and queries for filtering hackathon data
- Managed data within **Oracle** database and utilized API requests to retrieve and update information
- Backend communication with database was implemented using **PHP**, as well as **SQL**
- Basic functions such as adding hackers to hackathons, or viewing tables can be done through the GUI

Study Spots   January 2023
- Developed a full stack website using **React** to allow students to browse and create reviews for study spots within UBC
- Constructed a **NoSQL** database using **MongoDB Atlas** to store and maintain information for study spots and their reviews
- Implemented a backend on **Node.js** which utilized a server to process and recover requested information to web users onto the frontend
- Designed a fully functional frontend using **React Bootstrap**.

Flash Card App   April 2022
- Built a simple flash card app using **Java** and **OOP** principles, along with a GUI implemented with **Java Swing**
- Supports functions like adding/removing cards to/from decks, and revising decks to practice a topic
- Implemented tests for project methods using **JUnit**
- Implemented saving and loading decks functionality using **JSON** files

EXPERIENCE

Sander   June 2022 – August 2022
Sofo Kitchens
- Sanded cabinet parts in preparation for finishing and final assembly.
- Assisted in delivery of finished products as well as cabinet assembly.
- Communicated efficiently with coworkers to avoid manufacturing errors and streamline the manufacturing process.

SFU Camps Volunteer   July 2019 - August 2019
SFU Summer Camps
- Collaborated with camp supervisor in order to keep camp activities running efficiently throughout the day.
- Assisted in the guidance of educational classes for the campers.
- Watched over a small group of campers on outside field trips, taking a leadership role independently from the camp supervisor.

EDUCATION

University of British Columbia   Expected in April 2025
Bachelor of Computer Science