



Babak Hadady

Major in Computer Science, 4th Year

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TECHNICAL SKILLS

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

Frameworks / Libraries: React.js, Node.js, Express.js, JUnit, Mocha, Chai, Swing, Scikit-Learn, Pandas

Technologies: IntelliJ, GitHub, VSCode, MySQL, GDB, MongoDB, Docker, Jenkins, Jira

PERSONAL PROJECTS

• Hotel Management Application

Oracle Database Application

May 2023

- Constructed a Hotel Management Application with PHP allowing for CRUD functionality of an Oracle database.
- Implemented dynamic input sanitization for complex SQL queries to manipulate data, such as nested aggregations.
- Constructed a fully-responsive UI utilizing Bootstrap allowing for dynamic selection of input fields.
- **Technologies:** Oracle, PHP, HTML, CSS

• StudySpot

UBC Study Spaces

Feb 2023

- Constructed a UBC study space web application using React.js for nwHacks 2023 allowing users to browse and add reviews for campus spaces.
- Implemented a backend on Node.js and a database with MongoDB allowing for persistence of space information and reviews on UBC spaces.
- Incorporated a frontend with MUI containing a searchbar utilizing React hooks for searching and selecting of spaces with dynamic search suggestions.
- **Technologies:** React.js, Material UI, Node.js, Express.js, MongoDB

• Playify

Spotify Playlist Generator Web Application

Jan 2023

- Designed a responsive frontend in React.js with React Bootstrap allowing for submission of artists by a user.
- Utilized OAuth 2.0 protocol alongside RESTful Spotify API to allow users to securely connect their Spotify accounts to Playify.
- Constructed a secure backend built on Node.js with Express.js that retrieves a submitted artists songs.
- Incorporated creation of a dynamically named playlist on the connected users account with the generated songlist, visible on Spotify through PUT API calls.
- **Technologies:** React.js, React Bootstrap, Node.js, Express.js

ACADEMIC PROJECTS

• InsightUBC

UBC Course Database Application

Jan 2023 - Apr 2023

- Fullstack application allowing users to query databases containing UBC course information built on TypeScript.
- Developed through Test Driven Design using Mocha and Chai with a test suite achieving 100% code coverage.
- Utilized the Scrum process with a partner for efficient project delivery and ensure completion prior to upcoming deadlines.
- Implemented a robust backend on Node.js with Express.js which parses user queries ensuring adherence to EBNF standards, producing filtered results that match given criteria.

- Enforced linting standards using ESLint to ensure scalable and maintainable code.
- **Technologies:** TypeScript, Node.js, ESLint, Mocha, Chai

QuickCards

- *Java Swing Flashcard Application* May 2022
 - Constructed a GUI based flashcard application app utilizing Java Swing allowing for CRUD operations
 - Utilized JUnit 5 alongside TDD to implement a cohesive test suite with full test coverage.
 - Followed OOP and other design principles to ensure the absence of coupling and cohesion.
 - Maintained data persistence throughout sessions through utilization of JSON.
 - **Technologies:** Java, JUnit 5, Java Swing

WORK EXPERIENCE

- **Undergraduate Teaching Assistant** Vancouver, BC
University of British Columbia Jan. 2022 - Present
 - Collaborated with professors during class lectures to assist with student learning.
 - Supervised laboratories of 30 students where core content is facilitated.
 - Coordinated with a teaching team to develop strategies to strengthen learning.
 - Conducted office hours for students to seek additional help in course content and prepare for upcoming examinations.
 - Guided students in developing a course project in Java using various design principles such as OOP and implement features such as a GUI using Java Swing and data persistence using JSON.
- **Customer Sales Associate** Coquitlam, BC
IKEA May 2020 – Aug 2020
 - Ensured customer satisfaction through fulfilling inquiries on orders through a newly implemented online order system.
 - Implemented an order management strategy to maximize efficiency in delivering orders.
 - Developed multi-tasking and initiative reliability from the fast-paced work environment.
- **Team Member** Coquitlam, BC
A&W Restaurants Nov. 2017 – Sept. 2018
 - Utilized strong customer and team communication skills to place customer orders.
 - Operated front register alongside standard kitchen equipment to withhold high standard of service.
 - Collaborated with teammates to meet set company goals and to advertise upcoming promotions.

VOLUNTEERING EXPERIENCE

- **Fraser Health Volunteering** Port Moody, BC
Eagle Ridge Hospital Mar. 2019 - Mar. 2021
 - Worked in the hospital auxiliary and in acute care units alongside patients.
 - Experience in a professional healthcare environment, with the ability to execute tedious tasks and provide care for elders, developing a mature, precise responsible mindset.
 - Communicated and directed visitors at the front desk, and assisted in stocking front desk and ER supplies.
- **Summer Camps Volunteer** Burnaby, BC
Simon Fraser University Jul. 2019 - Aug. 2019
 - Lead and supervised children in post care camp activities that stimulated problem solving.
 - Established stronger leadership capabilities through consistent dependability and a role model attitude.
 - Guided campers through difficult activities and encouraged safe protocols for injury prevention.

EDUCATION

- **University of British Columbia** Vancouver, BC
Bachelor of Science in Computer Science Expected Graduation May 2024