

# Babak Hadady

Major in Computer Science, 3rd Year

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## TECHNICAL SKILLS

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**Languages:** C, C++, Java, JavaScript, TypeScript, PHP, HTML5, CSS, React.js, Node.js, Express.js

**Technologies:** IntelliJ, GitHub, VSCode, MySQL

**Testing:** JUnit, GDB, TDD, Mocha, Chai

## PERSONAL PROJECTS

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### • StudySpot

*UBC Study Spaces*

*Feb 2023*

- Constructed a UBC study space website 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 Atlas allowing persistence of ratings and reviews on UBC spaces.
- Incorporated a searchbar using React hooks for searching and selecting of spaces with suggestions.
- Designed a frontend through React Bootstrap allowing for adding and viewing of the existing reviews of spaces around campus stored in created database.
- **Technologies:** React.js, React Bootstrap, Node.js, Express, 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 that retrieves a submitted artists songs through Spotify API calls.
- 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

### • Personal Portfolio

*React Website*

*Jan 2023*

- Designed a personal website with multiple components using React.js.
- Implemented various scroll effect animations and a responsive particle background.
- Used React hooks to implement timed fade animations and a disappearing navigation bar.
- **Technologies:** HTML, CSS, JavaScript, React.js, React Bootstrap

## ACADEMIC PROJECTS

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### • InsightUBC

*UBC Course Database Application*

*Jan 2023 - Apr 2023*

- Fullstack application allowing users to query databases containing UBC course information built on TypeScript.
- Developed with Test Driven Design using Mocha and Chai to develop a test suite achieving 100% code coverage.
- Utilized the Agile/Scrum process with a partner for efficient project delivery and to meet deadlines.
- Implemented a robust backend which parses user queries on UBC courses which produces filtered results that match given criteria.
- Enforced linting standards using ESLint to ensure understandable code.
- **Technologies:** TypeScript, Node.js, ESLint, Mocha, Chai

## • QuickCards

*Java Swing Flashcard Application*

*May 2022*

- Constructed a GUI Based flashcard app on Java Swing where users can edit, remove and add flashcards.
- Utilized JUnit 5 alongside TDD to implement a cohesive test suite.
- Followed OOP principles and other design principles to ensure no coupling and cohesion within the project.
- **Technologies:** Java, JUnit 5, Java Swing, OOP

## WORK EXPERIENCE

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### • 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

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### • 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 ensured proper behaviour to prevent injury.

## EDUCATION

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### • University of British Columbia

Vancouver, BC

*Bachelor of Science in Computer Science*

*Expected Graduation May 2024*