UBC Science Co-op
T: 604.822.9677 | F: 604.822.9676 | science.coop@ubc.ca | www.sciencecoop.ubc.ca

Babak Hadady

Computer Science, 4th Year
(778) 840-6622 | hadadybabak@gmail.com | linkedin.com/in/babakhadady | github.com/babakhadady

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, Valgrind, MongoDB, Docker, Jenkins, Jira, Linux

Projects

- **OutDoorly**
  Full Stack National Parks Application *June 2023*
  - Created a fully responsive React.js application allowing users to submit search queries, browse and upload reviews on National Parks.
  - Utilized Amazon Web Services' S3 for cloud storage and retrieval of user submitted park images.
  - Utilized OAuth 2.0 protocol for authentication to leverage Google Cloud to authorize Google account connection with OutDoorly to maintain secure user information.
  - Designed a data model with Mongoose for park and user information to be stored on an MongoDB database accessible through our RESTful Node.js backend.
  - **Technologies**: React.js, Redux, Material UI, SASS, Node.js, Express.js, MongoDB, AWS S3, GCP
- **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 the 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 and generates a corresponding playlist.
  - 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
- **InsightUBC**
  UBC Course Database Application *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 alongside a team for efficient project delivery and to 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 maintanable code.
  - **Technologies**: TypeScript, Node.js, ESLint, Mocha, Chai

Work Experience

- **Undergraduate Teaching Assistant** Vancouver, BC
  University of British Columbia *Jan. 2022 - Present*
  - Directed labs consisting of 30 students where concepts such as Object Oriented Programming, Data Abstraction, and Test Driven Development were presented.
  - Conducted office hours for students seeking additional help in course content to help facilitate learning.
  - Guided students in developing a course project in Java consisting of a Swing GUI and persistence using JSON.

Education

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