Radhika Bajaj

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TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, HTML/CSS, SQL, NoSQL
Frameworks: React.js, Express.js, Node.js, Spring, Django
Tools: REST APIs, D3.js, MongoDB, SQLite, Neo4j DB, Postman API, JIRA, JUnit, Unix, Git

WORK EXPERIENCE

Workday | *Software Development Co-op*   *May. 2023-Dec. 2023*
Java, Spring, React.js, D3.js, NoSQL, Neo4j Graph DB, Xpresso   *Vancouver, BC*

- Actively participated in a team in software development using the Agile Scrum process to optimize reporting runtime for over **3.5 billion executions/month** across user base
- Built an application targeting **12000+ employees** that assists new hires onboarding and existing SDEs/SDETs to visualize data flow in Workday's **Xpresso (XO)** language
- Implemented knowledge graph visualization for **1000+ data records** in **XO** using **React.js** and **D3.js**
- Developed a **REST API** within **Java** using **Spring** and called the API endpoints via **React.js** to query stored in the **Neo4j Graph DB**
- Actively engaged in architectural decisions related to the project to ensure efficiency, optimization, feasibility, and robustness

PROJECTS

SpeechLess (cmdf Hackathon 2023) ⧉ | *React.js, Express.js, Node.js, Cohere AI API*
- Awarded UBC's Diversity in CS Project Hub prize for creating an application within **24 hours** to assist users with accessibility needs in a hackathon with **200 participants**
- Developed a **React.js** application that performs speech-to-text and text-to-speech conversion by enabling **speech recognition/synthesis**
- Implemented **NLP** by summarizing transcribed data using **Express.js/Node.js** to communicate with the **Cohere AI API**

FitMe ⧉ | *React.js, Express.js, Node.js, MongoDB*
- Designed and deployed a **React.js** web application for users to track their workout sessions and perform CRUD operations with sessions stored in **MongoDB**
- Constructed a **REST API** using **Express.js** and **Node.js** and established calls to the API endpoints via **React.js**

GradeSaver ⧉ | *React.js, Python, Django, SQLite*
- Designed a **React.js** application that allows students to easily maintain assignment and grade information about their courses
- Built a **REST API** via **Django** to query **HTTP** responses and requests between the **React.js** application and **SQLite**

BudgetBuddy ⧉ | *Java, Java Swing GUI, JUnit*
- Developed a **Java** application that allows users to manage and access their financial information via a GUI designed using **Java Swing**
- Created **JSON** classes for the user to track transactions and balances by saving and loading files
- Tested functionality by writing ~**30 JUnit test** cases to enforce robustness of program models

EDUCATION

University of British Columbia   *Sep. 2021-Apr. 2026*
Computer Science, BSc.
- BC District Achievement Scholarship
- Eric Hamber Scholarship