

roy lee

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education

- **University of British Columbia** - BSc. in Computer Science Sept 2019 - May 2025 (Expected)
 - > Relevant Coursework: Software Engineering, Hardware and Operating Systems, Databases, Networking, Intro to AI, Machine Learning and Data Mining, Applied Machine Learning, Advanced Algorithm Design and Analysis

experience

- **SAP** - Software Engineer Intern (SAP Analytics Cloud) - Vancouver, BC May 2022 - April 2023
 - > Developed a full stack POC for adding all users to a SAC Workspace using JavaScript, SAPUI5, and XSJS
 - > Delivered various front-end and back-end bug fixes, reducing backlog by 40%
 - > Spearheaded rehaul of UI automation framework, saving 50+ hours of manual regression testing per sprint
 - > Collaborated with internal teams to setup and develop API automation for HANA Cloud tenants using Java
 - > Wrote and refactored Jasmine.js unit tests for file repository features with async/await architecture
 - > Took initiative to create internal dashboard to track automation status using Jenkins and S3
- **ForBest Academy** - Mathematics Teacher - Richmond, BC Sept 2019 - Dec 2020
 - > Designed and taught in-person and online private 1.5-hour classes to high school students
 - > Created lesson plans and learning materials for use by the academy

projects

- **Spotify Profile** Sept 2023 - Present
 - > Developed a full-stack web applications serving the Spotify API with React as the frontend
 - > Implemented Spotify OAuth to get data from user's libraries and persisted login state using Web Storage API
 - > Used Express and Axios for web server and API calls
- **Insight UBC** Sept 2023 - Dec 2023
 - > Developed a full-stack web application for students to manage and run queries against UBC datasets
 - > Built web server, dataset processor API and query engine API w/ TypeScript and Express
 - > Implemented zipped HTML and JSON dataset parsing and geo-location fetching for rooms
 - > Used React and Vite to create UI for querying and visualizing results
- **Co-op Job Board** Jan 2022 - Apr 2022
 - > Developed a co-op job board web application using PHP
 - > Implemented user/posting creation and management using MySQL with a department provided Oracle database
- **Banana List** May 2020 - July 2020
 - > Developed a desktop to-do list application featuring data persistence and an interactive point system
 - > Incorporated both a console interface and a GUI using Java Swing and thoroughly tested using JUnit

leadership

- **UBC Esports Association** - VALORANT Team Captain (UBC Div 2/Blue) Aug 2020 - May 2023
 - > Led team of 5 players to qualifying for Red Bull Campus Clutch Canadian Finals
 - > Organized and led team practice and tryouts, and managed tournament and match scheduling

technical skills

- **Languages**
 - > TypeScript, JavaScript, Python, Java, C/C++, SQL, Racket, PHP, HTML/CSS
- **Frameworks**
 - > Next.js, React, Express, Tailwind, Mocha, Jasmine, JUnit
- **Libraries**
 - > Axios, Tailwind, Chai, scikit-learn, pandas, NumPy, matplotlib
- **Tools**
 - > Node, Webpack, Docker, Jenkins, Git, GitHub, Gerrit, NPM, Yarn, Maven, Appvance.ai, JupyterLab