roy lee

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education

- **University of British Columbia** – BSc. in Computer Science — Sept 2019 - Present
  > Expected Graduation: April 2025
  > Relevant Coursework: Systematic Program Design, Models of Computation, Software Construction, Computer Systems, Basic Algorithms and Data Structures, Software Engineering, Computer Hardware and Operating Systems, Intermediate Algorithm Design and Analysis, Relational Databases, Computer Networking, Intro to Artificial Intelligence, Machine Learning and Data Mining, Applied Machine Learning, Advanced Algorithm Design and Analysis

experience

- **SAP** – Software Engineer Intern (SAC Analytics Cloud) – Vancouver, BC — May 2022 - April 2023
  > Designed and implemented a full stack proof-of-concept for adding all users to a Workspace in JavaScript, UI5, XSJS
  > Fixed critical file repository search algorithm bug making resources in a Workspace unsearchable
  > Spearheaded rehaul of UI automation framework, saving 40+ hours of manual regression testing per sprint
  > Collaborated w/ internal teams to setup and develop API automation for new HANA Cloud tenants in Java
  > Took initiative to create internal dashboard to track automation status w/ Jenkins and S3
  > Wrote and refactored Jasmine unit tests for file repository features with async/await architecture
  > Delivered various front-end and back-end bug fixes, reducing backlog by 30%

projects

- **Spotify Profile [royee-lee/spotify-profile]** — Sept 2023
  > Web application for users to view their personal Spotify data
  > Implemented OAuth flow w/ Express and Axios to acquire Spotify access token to be passed to React app
  > Persisted login state using React hooks and Web Storage API to store access tokens in local storage and refresh when necessary
  > UI styled w/ Styled Components and scaffolding done w/ React Router

- **Insight UBC** — Sept 2023
  > Web application for faculty members to manage and run queries against course sections and building rooms
  > Built web server, dataset processor API and query engine API w/ TypeScript and Express, UI w/ React and Vite
  > Supports zipped HTML and JSON dataset parsing and building geolocation fetching

- **Co-op Job Board** — Jan 2022
  > Co-op job board for students to apply to postings, employers to create postings, and advisors to manage students
  > Developed in PHP and MySQL to query and manage department provided Oracle database

- **Yeet** — Nov 2020
  > Quick-launcher Chrome extension used to launch a set of bookmarks to simplify daily pandemic-era workflow
  > Leveraged Google Cloud API to store bookmark data in Chrome's local storage

- **Banana List [royee-lee/banana-list]** — May 2020
  > Desktop to-do list featuring an interactive reward system and load/save functionality
  > Incorporated both a console interface and a GUI constructed w/ Java Swing and tested w/ JUnit

skills

- **Languages**
  > Proficient: TypeScript, JavaScript, Java, Prior Experience: C, Python, Racket, PHP, MySQL, HTML, CSS
- **Libraries/Frameworks**
  > Next.js, React, Express, Axios, Tailwind, UI5, Mocha, Jasmine, Chai, JUnit, scikit-learn, pandas, matplotlib
- **Tools**
  > Node, Webpack, Docker, Jenkins, Git, GitHub, Gerrit, Npm, Yarn, Maven, Appvance.ai, JupyterLab

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