

SAKURA SEKIGUCHI

A Computer Science student seeking a Co-op position to apply software development skills and grow as a developer.

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

Vancouver, BC

Bachelor of Science, Major in Computer Science | GPA: 86.3% (CS: 87.0%)

Graduating May 2028

Relevant Courses: Software Construction, Algorithms and Data Structures, Computer Systems, Relational Databases, etc.

EXPERIENCE

Internship: Hypersecu Information Systems Inc. – *Software Developer Co-op*

September 2025 – Present

Extracurriculars: UBC Computer Science Student Society (Graphic Designer), UBC Japan Association (Promotion Exec)

PROJECTS

Game Data Management System – *Web Application*

July 2025 - August 2025

To support one-to-one turn-based games by managing skills, player profiles, game rounds, and performance tracking.

- **Development:** Designed relational tables from an ER diagram and stored persistent gameplay data using Oracle SQL.
- **Frontend:** Built a web interface that allows users to perform queries such as dynamic insertion, deletion, and selection.
- **Backend:** Implemented backend functionality including route handling and supporting real-time data retrieval.
- **Tools & Technologies:** Oracle, SQL, JavaScript, HTML, Node.js, Express.js, Git, GitHub, VS Code

Food Radar (*BCS HACKS Hackathon*) – *Full-Stack Web Application*

March 2025

To reduce household food waste and improve user convenience in managing food inventory, addressing sustainability concerns.

- **Development:** Built a full-stack web application using the MERN Stack and Google Cloud Vision API for users to easily track fridge inventory via image recognition, with optional manual entry for pantry items.
- **Teamwork:** Collaborated in an effective workflow using version control, code reviews, and rapid feature prototyping.
- **Frontend:** Contributed to integrating APIs and refining UI components using React for a responsive user experience.
- **Backend:** Led backend development with JavaScript, building a RESTful API server and integrating MongoDB.
- **Testing:** Verified API functionality using Postman to ensure reliable backend responses.
- **Tools & Technologies:** JavaScript, React, MongoDB, Express.js, Node.js, Postman, Git, GitHub, VS Code

Shift Scheduler – *Java Desktop Application*

September 2024 – December 2024

To automate employee shift assignments to minimize manual tasks for managers and reduce staffing errors.

- **Development:** Built a Java-based desktop application to improve shift scheduling efficiency by managing worker assignments, enforcing shift capacities, and distinguishing between trainees and regular staff.
- **Documentation:** Used *Modifies/Requires/Effects* clauses for each method to enhance maintainability of the code.
- **Data Management:** Implemented JSON-based persistence and an event logging system for load/save functionality.
- **Testing:** Increased code quality by writing unit tests before implementation to facilitate efficient debugging.
- **Tools & Technologies:** Java, Java Swing, Git, GitHub, VS Code

TECHNICAL SKILLS

Languages: Java, JavaScript, C/C++, HTML, CSS, SQL, R

Frameworks: React, Node.js, Express.js, Mongoose

Tools & Databases: Oracle, MongoDB, Git, GitHub, Postman, VS Code, Windows, Linux