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: 86.4% (CS: 87.4%)   **Graduating May 2028**
Relevant Courses: Software Construction, Algorithms and Data Structures, Computer Systems, Relational Databases
Extracurriculars: Computer Science Student Society (Graphic Designer), Japan Association (Promotion Executive)

PROFESSIONAL EXPERIENCE

Hypersecu Information Systems Inc. – *Software Developer Intern*   **August 2025 - Present**
- Developed a Windows desktop application in C# and Windows Forms to import HOTP and TOTP token data into an SQLite database, implementing validation to automatically remove duplicates and invalid entries.
- Designed and implemented the UI/UX for an internal desktop application that enables users to add or remove HOTP functionality from FIDO-enabled tokens, improving usability for internal teams.
- Built an application for generating HOTP and TOTP using SHA-1 and SHA-256 hash algorithms, securely producing codes with a specified length based on a public key entered by a user.

PROJECTS

Game Data Management System – *Oracle, SQL, JavaScript, HTML, CSS, Node.js, Express.js*   **July 2025 - August 2025**
A web app 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.
- **Backend:** Implemented backend functionality including API route handling and to support real-time data retrieval.
- **Frontend:** Built a web interface that allows users to perform queries such as dynamic insertion, deletion, and selection.
- **Database:** Applied normalization to complex tables, using foreign keys and constraints to illustrate relationships.

Food Radar *(BCS HACKS Hackathon)* – *JavaScript, React, MongoDB, Node.js, Express.js, Postman*   **March 2025**
A web app to reduce food waste and improve user convenience in managing food inventory, addressing sustainability concerns.
- **Development:** Delivered a functional MERN stack app in 24 hours, demonstrating rapid prototyping and collaboration.
- **Backend:** Integrated RESTful APIs, set up a backend server, and created a database schema and model in Mongoose.
- **Frontend:** Contributed to the implementation of Google Cloud Vision API for advanced image recognition.
- **Testing:** Verified API functionality using Postman to ensure reliable backend responses with JSON format.
- **Teamwork:** Collaborated in a team of 4 using Git and GitHub, splitting backend and frontend tasks for efficiency.

Shift Scheduler – *Java, Java Swing*   **September 2024 – December 2024**
A desktop app to improve shift scheduling efficiency by managing worker assignments, shift capacities, and data persistence.
- **Development:** Used Java OOP principles to effectively manage lists of workers and categorize worker status.
- **Data Management:** Implemented JSON-based persistence and an event logging system for load/save functionality.
- **Documentation:** Used *Modifies/Requires/Effects* clauses for each method to enhance maintainability of the code.
- **Testing:** Increased code quality by writing unit tests before implementation to facilitate efficient debugging.

TECHNICAL SKILLS

Languages: Java, JavaScript, C#, C/C++, HTML, CSS, SQL
Frameworks: React, Node.js, Express.js, Mongoose, Windows Forms, ASP.NET Core
Tools & Databases: Oracle, MongoDB, SQLite, Git, GitHub, Postman, Visual Studio, VS Code, Figma, Windows, Linux