

SAKURA SEKIGUCHI

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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

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 desktop app in C# and Windows Forms to import OTP token data into an SQLite database, enhancing data integrity and ensuring the ability to import large data such as over 10,000 token entries.
- Improved Hypersecu's OTP token programming app by implementing new features and fixing bugs using XAML, Avalonia, ASP.NET Core, and PostgreSQL, carefully analysing the frontend and backend logics.
- Built a TOTP generation tool as part of an MVC-based internal web app using Vanilla JS, CSS, and HTML, enabling supervisors to visualize TOTP values over custom time ranges in a dynamic table format.
- Designed and implemented the UI/UX for an internal desktop app that enables users to add or remove HOTP functionality from FIDO-enabled tokens, focusing on usability, design consistency, and clear error messages.

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 MongoDB.
- **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:** Applied Java OOP principles to effectively classify workers by their status and assign them shifts.
- **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, XAML

Frameworks: Node.js, Express.js, MongoDB, Windows Forms, ASP.NET Core, AvaloniaUI

Tools & Databases: Oracle, MongoDB, SQLite, Git, GitHub, Postman, Visual Studio, VS Code, Figma