

# SPENCER FLETCHER

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Year 4, Computer Science Major

(351) 209-8432 ◆ spenfletcher@gmail.com ◆ [spencerfletcher.com](http://spencerfletcher.com) ◆ [github.com/cidarid](http://github.com/cidarid)

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## TECHNICAL WORK EXPERIENCE

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### **Freelance Developer | Hollywood Theatre** - Vancouver, BC

Mar 2024 - Apr 2025

- Architected and deployed a web-based marquee updater (**JavaScript**) and a tip splitting system (**Google Apps Script**) as a sole developer, streamlining theatre workflows to save 5+ hours of manual work weekly.

### **Student Developer & IT Intern | University of British Columbia** - Vancouver, BC

Sep 2022 - Apr 2023

- Drove a 100%+ increase in donations for the UBC Cadaver Donation Program by redesigning and launching its public webpage ([cps.med.ubc.ca/body-donation/](http://cps.med.ubc.ca/body-donation/)), improving layout, accessibility, and load performance.
- Overhauled the faculty directory serving hundreds of users, improving search speed by more than 250%.
- Reduced downtime by 20% by solving server issues, recovering vital data, and installing necessary software.

### **IT Intern | Microspec Inc.** - Peterborough, NH

Oct 2020 - Aug 2021

- Worked on a team of 3 developers to create a **Python/Django** internal documentation tool still used by 50+ employees to improve access and organization across departments.

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## PERSONAL PROJECTS

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### **Remote Control Mobile App** | [github.com/cidarid/RemoteControl](http://github.com/cidarid/RemoteControl)

Jun 2025 - Present

- Developing a mobile application using **Swift** that allows users to control their computer from their phone, improving accessibility and enabling features like mouse input, media control, and presentation management.

### **Collaborative Recipe Book** | [github.com/cidarid/RecipeBook](http://github.com/cidarid/RecipeBook)

Jun 2025 - Present

- Developing a full-stack recipe management application built with **SvelteKit** and **PostgreSQL** that enables users to save their own recipes as well as collaborate with others and browse public recipes.
- Built with **SvelteKit**, using **PostgreSQL** for storage, user authentication, and image storage.

### **Personal Portfolio** | [spencerfletcher.com](http://spencerfletcher.com)

Dec 2023 - Present

- Built using **Next.js**, hosted on **Netlify**, and connected to a custom domain via **Bluehost**.

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## ACADEMIC PROJECTS

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### **Software Engineering Main Project - UBC** | [github.com/cidarid/CPSC310](http://github.com/cidarid/CPSC310)

Sep 2023 - Dec 2023

- Built a custom query language in **TypeScript** with a **Svelte** front end to visualize course data. Unit tested with **Chai** and course data stored using **SQL**.

### **Computer Systems, Low-Level Projects - UBC** | [github.com/cidarid/CPSC213](http://github.com/cidarid/CPSC213)

Jan 2023 - Apr 2023

- Implemented stack structures, thread synchronization, and memory allocators using **C** and **Assembly**.

### **Structures & Algorithms - University of Rochester** | [github.com/cidarid/CSC172](http://github.com/cidarid/CSC172)

Jan 2022 - Apr 2022

- Designed and optimized core algorithms in **Java**, such as Huffman encoding, quicksort, and binary search.

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## SKILLS

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Programming: Python, Java, C, C++, Assembly, R, JavaScript, TypeScript

Tools/Frameworks: Next.js, Django, Svelte(kit), Node.js, React (Native), JetBrains, Git, Unity, SQL, Chai

AI: MDPs, RL, Temporal & Approximate Inference, Markov Networks, Ontologies

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## EDUCATION

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### **University of British Columbia Vancouver**, Computer Science

Sep 2022 - May 2026 (expected)

Overall GPA: 3.85/4.0; Major GPA: 3.9/4.0.

### **University of Rochester**, Computer Science

Sep 2021 - May 2022

Overall GPA: 3.8/4.0; Major GPA: 4.0/4.0. Dean's List Fall 2021, Spring 2022.