

SPENCER FLETCHER

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UBC Computer Science student (3.9 Major GPA) with experience in compiler tooling (Clang/LLVM), full-stack web development (SvelteKit, Django), and mobile apps (Swift). Seeking software engineering roles starting Fall 2026.

EDUCATION

University of British Columbia, Computer Science, GPA 3.85/4.0 (Major 3.9) Expected May 2026
Outstanding International Student (OIS) Award
Relevant Coursework: Parallel Computing, Computer Security, AI, Algorithm Design, Operating Systems
University of Rochester, Computer Science, GPA 3.8/4.0 (Major 4.0), Dean's List Sep 2021 - May 2022

WORK EXPERIENCE

Freelance Developer | Hollywood Theatre - Vancouver, BC Mar 2024 - Apr 2025

- Created a tip-splitting system using Google Apps Script, eliminating **5+ hours of manual work weekly**.
- As the sole developer, built and deployed a JavaScript web tool that tracks marquee letters and generates character sets for upcoming displays, saving **2+ 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 by redesigning the UBC Cadaver Donation Program's public webpage (cps.med.ubc.ca/body-donation) using HTML/CSS – improving accessibility, load performance, and UX.
- Overhauled the staff directory serving hundreds of users, **improving search speed by more than 250%**.
- **Reduced server downtime by 20%** by diagnosing and resolving recurring Linux server issues, implementing automated backup procedures, and deploying monitoring tools.

IT Intern | Microspec Inc. - Peterborough, NH Oct 2020 - Aug 2021

- Built and deployed an internal documentation portal using Django/PostgreSQL, **servicing 50+ employees** across departments with full-text search, role-based access control, and department-level organization.

Bar Manager | Just Another Cafe - Vancouver, BC Oct 2025 - Present

- Promoted to manager within one month. Built a cocktail program driving a **30% increase in revenue**.

SELECTED PROJECTS

MemoryGuard | github.com/spencerfletcher/MemoryGuard Mar 2024

- Built a Clang/LLVM-based memory safety tool to detect **3 classes of memory bugs** – leaks, double-frees, and dangling pointers – in C via static instrumentation and dynamic runtime analysis.
- Developed custom AST matchers and pointer alias tracking to reconstruct error paths back to root cause.

Fork – Git-Style Recipe Platform | github.com/spencerfletcher/RecipeBook Oct 2025 - Present

- Building a full-stack recipe platform with SvelteKit and PostgreSQL featuring **git-style version control** (branching, diffing, forking) for collaborative recipe development.
- Implemented user authentication via Supabase Auth, image storage via Supabase Storage.

Spotify Magic Search | github.com/spencerfletcher/MagicSearch Feb 2026 - Present

- Building a natural language music discovery app with Next.js and FastAPI – users describe what they want to hear and get personalized recommendations from their Spotify library, new songs, or both.
- Uses **LLM-powered query parsing** for recommendations, matched to Spotify's API using cosine similarity.

SKILLS

Programming: Python, TypeScript, JavaScript, C, C++, Swift, Assembly, Erlang, R

Web/Frameworks: Next.js, Django, SvelteKit, Node.js, React/React Native, Tailwind

Tools/Infrastructure: Git, Docker, PostgreSQL, AWS, Unit Testing (Chai/Mocha), Clang/LLVM, Supabase