

Sam McClenaghan

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EDUCATION

University of Victoria

Bachelor of Science in Computer Science

Victoria, BC

Sept 2023 - April 2027

Bellerose Composite High School

International Baccalaureate Diploma Programme

Edmonton, AB

Aug. 2020 – June 2023

EXPERIENCE

Full Stack Developer, Intern

Leanpub

May 2025 - Dec. 2025

Victoria, BC

- Rebuilt Dropbox API integration to streamline file sync and publishing flows for authors using AWS S3 and background job queues.
- Implemented end-to-end background job progress tracking using Redis and a progress bar with reliable completion/failure handling for author-facing publishing workflows.

Application & APIs Developer, Intern

Trustscience

Jan. 2024 - Aug. 2024

Edmonton, AB

- Developed and deployed a production-grade file version-control system using HTTP2 and JSON Patch to enable delta storage, reducing AWS S3 costs by 15%.
- Engineered and delivered a real-time financial analytics platform using DynamoDB and Elasticsearch, improving query performance by 50%.

Frontend Developer, Intern

Trustscience

Nov. 2022 - Aug. 2023

Edmonton, AB

- Modernized front-end architecture with Vue 3 Composition API and serverless AWS Lambda services, accelerating partner onboarding by 45%.
- Spearheaded a global error handling system, unifying error state management and user notifications across the codebase.

PROJECTS

Course Scheduler | *Go, React, TypeScript, SQLite*

2025

- Built a full-stack course scheduling platform with Go/Chi REST API and React 19 frontend, featuring interactive weekly calendar with drag-and-drop, real-time enrollment data, and shareable schedules.
- Developed concurrent web scraper using goroutines to fetch course data from UVic's catalog and Banner systems, parsing HTML with custom tree-walking algorithms to extract section details and enrollment stats.
- Deployed containerized application on Fly.io with Caddy reverse proxy; implemented type-safe database layer using sqlc with SQLite for course storage and schedule persistence.

Job Tracker | *Ruby on Rails, OpenRouter API (GPT), Faraday, JSON*

2026

- Built a Rails job tracker featuring LLM-powered automation: GPT-driven job posting parser extracting structured fields (company, title, skills, salary) from unstructured text.
- Implemented AI cover letter generator using structured prompts and resume-aware context to produce personalized, metric-driven cover letters.
- Integrated OpenRouter API with temperature-tuned responses (0.3 parsing, 0.7 creative) and robust error handling for reliable production use.

TECHNICAL SKILLS

Languages: React.js, Vue.js, Python, Go, C, Java, SQL, Ruby, HTML/CSS, Typescript

Frameworks & Libraries: Ruby on Rails, Next.js, Remix, TailwindCSS, Bootstrap

Developer Tools: Git, Docker, Jira, AWS (Lambda, S3, DynamoDB), CI/CD