

# Sam McClenaghan

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## EDUCATION

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### 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

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### Full Stack Developer, Intern

*Leanpub*

May 2025 - Dec. 2025

*Remote (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.
- Contributed to a large-scale Rails monolith, writing robust tests with RSpec and FactoryBot to ensure stability for critical production features.

### 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

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

2025

- Built full-stack scheduling platform with Go/Chi REST API and React 19, featuring drag-and-drop calendar, real-time enrollment data, and shareable schedules.
- Developed concurrent scraper using goroutines to process 1000+ courses from UVic systems, implementing custom HTML parsing for live enrollment stats.

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

2026

- Built Rails job tracker with GPT-powered automation parsing job postings into structured data (company, title, skills, salary).
- Implemented AI cover letter generator using resume-aware prompts for personalized output, integrated via OpenRouter API with robust error handling.

## TECHNICAL SKILLS

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

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

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