

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

WORK EXPERIENCE

Full Stack Developer, Intern

Leanpub

May 2025 - Dec. 2025

Remote (Victoria, BC)

- Shipped a production rich text editor for 50,000+ authors by integrating Lexical with React and TypeScript into core content workflows.
- Improved accessibility coverage for 50,000+ ebooks by implementing an AWS Lambda and Step Functions pipeline that auto-generates alt text for embedded images at scale.

Application & APIs Developer, Intern

Trustscience

Jan. 2024 - Aug. 2024

Edmonton, AB

- Reduced AWS S3 storage costs by 15% by building a production-grade file version-control system with HTTP2 and JSON Patch for efficient delta storage.
- Improved query performance by 50% by engineering a real-time analytics platform with DynamoDB and Elasticsearch for financial data processing.

Frontend Developer, Intern

Trustscience

Nov. 2022 - Aug. 2023

Edmonton, AB

- Accelerated partner onboarding by 45% by modernizing the frontend architecture with Vue 3 Composition API and serverless AWS Lambda services.
- Increased test coverage from 35% to 80% by implementing a comprehensive testing suite with Playwright for E2E tests and Jest for unit tests.

PROJECTS

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

2026

- Reduced course data ingestion time by 75% across 2,000+ sections by implementing concurrent goroutine scraping with timeout-guarded HTTP requests and wait groups.
- Shipped a full-stack scheduling platform with 99.9% uptime by building a React frontend, Go REST API backend, and containerized deployment on Fly.io with Docker and Caddy.

UVic scholarships | *Next.js*

2025

- Served 2,000+ students with a scholarship discovery tool by building a Next.js search interface with instant filtering and optimized query performance.
- Reduced search latency by 70% across 500+ scholarship records by implementing client-side caching and debounced filter operations.

TECHNICAL SKILLS

Languages: Java, Python, C, Javascript/Typescript, SQL(MySQL), Ruby, HTML/CSS, Go

Relevant Coursework: OS, Computer Organization, Data structures, Signals & Networks

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

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