

# 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

*Victoria, BC*

- Built and maintained scalable book-publishing features in Ruby on Rails 8 with RESTful APIs and Active Storage, increasing pipeline reliability and team efficiency.
- Optimized Markua editor for large-scale manuscripts with enhanced media support and faster text rendering.
- Rebuilt Dropbox API integration to streamline file sync and publishing flows for authors using AWS S3 and background job queues.

### Software Developer, Intern

*Trustscience*

Nov. 2022 - Aug. 2024 (Summers)

*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%.
- Modernized front-end architecture with Vue 3 Composition API and serverless AWS Lambda services, accelerating partner onboarding by 45%.
- Engineered and delivered a microservice-based real-time financial analytics platform using DynamoDB and Elasticsearch, achieving 3× faster query performance.

## PROJECTS

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### Course Scheduler | *Go, React, Typescript*

Sept 2025

- Built a full-stack platform for scheduling 5000+ UVic courses using Go REST API and React frontend.
- Implemented type-safe backend with Go, SQLite, and sqc; added middleware for logging, CORS, and rate limiting.
- Developed interactive React frontend with TanStack Router, React Query, and Tailwind CSS; integrated oRPC for type-safe API communication.

### Photograph | *Next.js, React.js, Typescript PostgreSQL*

Jan 2025

- Developed full-stack photo gallery using Next.js App Router, React Server Components, and TypeScript for optimal performance and SEO.
- Added role-based collaboration with real-time invitations and permission management for owners, editors, and viewers.
- Built backend with PostgreSQL and Drizzle ORM; integrated Next.js Image optimization and UploadThing for secure uploads.

## TECHNICAL SKILLS

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**Languages:** React.js, Vue.js, Python, Go, Java, SQL, Ruby

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

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