

# 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 shipped book-publishing features on Ruby on Rails 8 to improve reliability and author workflows
- Enhanced the Lexical plain-text Markua editor with robust resource handling and syntax highlighting
- Modernized backend services for the authors application, improving maintainability and test coverage

### Software Developer, Intern

*Trustscience*

Nov. 2022 - Aug. 2024 (Summers)

*Edmonton, AB*

- Improved a file version-control system using JSON Patch, reducing operational costs by 15% and simplifying delta storage
- Led UI/UX modernization with Vue.js 3 Composition API and a serverless backend, shortening client integration time by 45%
- Designed and implemented a microservices migration leveraging DynamoDB and Elasticsearch for real-time financial analytics, achieving 3x faster data retrieval

## PROJECTS

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### Vikes Scraper | *Go*

Aug 2025

- Built a concurrent web scraper achieving 90% faster data retrieval by implementing goroutines and channels for parallel processing of 5000+ course entries
- Implemented robust error handling and recovery mechanisms for system stability, including graceful timeout management and request retries
- Engineered efficient memory management through string manipulation and buffer pooling, optimizing resource usage in a constrained environment
- Designed a modular architecture with interfaces and dependency injection, enabling easy integration of new data sources and 40% faster feature development

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

Jan 2025

- Architected and developed a scalable, full-stack photo gallery platform using Next.js App Router, React Server Components, and TypeScript, optimizing performance and SEO
- Implemented role-based collaboration system enabling gallery owners to share with viewers, editors, and admins, with features for real-time invitations and permission management
- Engineered a robust backend with PostgreSQL and Drizzle ORM, implementing efficient queries and migrations for seamless data management and scalability
- Implemented efficient image management with Next.js Image optimization and UploadThing for secure file 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)