

Mason Leitch

nosamleitch@gmail.com | masonleitch.dev | github.com/masonym | (778) 347-8142

Education

University of the Fraser Valley
Bachelor of Science, Computing Science (GPA 3.63)

Abbotsford, BC
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Experience

Software Developer (Contract) Modulo Software Inc. – Chilliwack, B.C. June 2024 – Present

- Collaborated with engineering teams to architect a full-stack Django web application, translating complex structural requirements into an intuitive interface, reducing drafting time from hours to minutes
- Developed a Python CAD analysis tool to automate structural support detection/tributary area calculations in architectural plans, reducing manual review time and improving load-calculation accuracy for engineering teams.
- Modernized legacy drafting tool by refactoring monolithic code into modular, scalable components using OOP principles
- Designed and deployed 36 PHP-based structural engineering calculators for load analysis/design compliance

Projects

MapleStory Tools Project ([Link](#)) [GitHub](#)

- Designed and deployed a React/TypeScript platform hosting several game tools to 10k+ monthly active users
- Engineered high-performance Next.js frontend with server-side rendering and CloudFront-optimized asset delivery for thousands of items and images fetched via REST API
- Scaled infrastructure using AWS DynamoDB, S3, Lambda, and API Gateway to handle growing database and content delivery needs for a global audience
- Developed automated data mining solution and ETL pipeline in C# and Python to track 1000+ in-game shop items, powering a database to allow users to track upcoming and past sales
- Implemented responsive design with Tailwind CSS and established TypeScript practices for improved maintainability

Military Contracting Event Management Website ([Link](#)) [GitHub](#)

- Architected and deployed a full-stack web application using Next.js, React, and TypeScript, implementing complex features including dynamic routing, authentication systems, and interactive components
- Integrated AWS CloudFront CDN for optimized image and content delivery, ensuring fast global access and reducing server load through edge caching
- Designed and implemented a scalable data architecture using centralized TypeScript interfaces and React context providers, enabling efficient management of 35+ component types and 50+ pages
- Developed responsive and accessible UI components using Tailwind CSS, ensuring consistent design and optimal user experience across all device types
- Implemented advanced React patterns including custom hooks, context providers, and compound components to manage complex state and user interactions

Skills & Interests

Languages: TypeScript, JavaScript; Python; PHP;

Cloud/Infrastructure: AWS (DynamoDB, S3, Lambda, CloudFront)

Libraries: React; Next.js; Django; Laravel

Tools: Git, Neovim