

Clay Bowser  
Full-Stack Web Developer  
Dartmouth, Nova Scotia, Canada  
Email: [claybowser95@hotmail.com](mailto:claybowser95@hotmail.com)  
GitHub: <https://github.com/claybowser>  
Website Portfolio: <https://claybowser.github.io>

## PROFESSIONAL SUMMARY

Full-stack web developer with hands-on experience building production-ready applications and integrating AI tools into developer workflows. Strong background in JavaScript, TypeScript, React, Node.js, and Python/Flask, with experience deploying and maintaining applications in cloud environments. Interested in remote-friendly roles with teams building modern, scalable web products and developer tooling.

## EXPERIENCE

Web Developer — Natural Resources Canada | October 2023 – December 2023

- Resolved dozens of OWASP-related security vulnerabilities across three internal PHP-based websites.
- Improved application security, stability, and compliance for systems used by research and scientific staff.
- Worked within existing legacy codebases to safely patch and validate fixes.

Full-Stack Developer Intern — SaltWire | May 2022 (Contract)

- Built responsive CSS-based advertisement components deployed on the SaltWire News Network homepage for Canada Day.
- Supported UI updates under real production and editorial constraints.
- Conducted competitor and market analysis to inform layout and design decisions.

Full-Stack Developer — Site 2020 | May 2021 (Short-term Contract)

- Implemented accessibility-focused UI improvements for an Android application.
- Contributed design feedback to improve usability and visual clarity.

## PROJECTS

Halifax Transit Fare Ecommerce App (MERN, Stripe)

- Full-stack web application enabling authenticated ticket purchases with QR-code validation.
- Integrated Stripe for secure payment processing.
- Built with MongoDB, Express, React, and Node.js.
- GitHub: [https://github.com/claybowser/halifax\\_transit\\_fare\\_app](https://github.com/claybowser/halifax_transit_fare_app)

Code Hedgehog — VS Code Extension (AI)

- AI-powered code suggestion extension using local LLM inference via Ollama and CodeGemma.
- Published on the VS Code Marketplace.
- Designed prompt routing and context-aware suggestions for developer workflows.
- GitHub: <https://github.com/claybowser/code-hedgehog>

Data Explorer (Flask, Python, Visualization)

- Web application for uploading CSV datasets and generating interactive visualizations (scatter, bar, heatmaps).
- Generates exportable HTML reports for data analysis and sharing.
- GitHub: <https://github.com/claybowser/data-explorer>

## EDUCATION

Nova Scotia Community College

IT Web Programming Diploma — 2023

- Full-stack web development, React, Node.js, Laravel, C#.

Charles P. Allen High School

High School Diploma

- Programming coursework; built a “Choose Your Own Adventure” game in Visual Basic.

## TECHNICAL SKILLS

Primary: JavaScript, TypeScript, Python; Frontend: React, Redux, HTML, CSS, Vue; Backend: Node.js, Express, Flask, Laravel;  
Databases: MongoDB, MySQLCloud / Tools: Azure, Git, Linux, Apache; Other: AI tools (Ollama, CodeGemma), Stripe integration, UI/UX design principles, Agile workflows.

LANGUAGES: English (Fluent), French (Intermediate).