

Jake Cushway

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Education

Bachelor of Science – Computer Science | University of Victoria, BC
Full Stack Web Application Diploma | Selkirk College, BC

Sep 2022 – May 2026
Sep 2021 – May 2022

Technologies

Languages: React, JavaScript, C, Python, Java, Rust, SQL, HTML, CSS
Technologies: Git, Docker, Linux, Apache2, Nginx

Relevant Work Experience

USV Technician | Open Ocean Robotics

Jan 2026 – Present

- Develop, test, and integrate React-based features into DataXplorer to improve autonomous vessel piloting, usability, and data tracking.
- Assist in leading testing and R&D operations for implementing new features, updates, and performance improvements.

Freelance Web Development Contractor

Sep 2023 – Present

- Collaborate with clients to design, develop and deploy custom websites based on their business needs.
- Develop and host these websites on a private Linux server, providing clients with cost-effective hosting and ongoing maintenance.

Full Stack Developer Intern | Selkirk Innovates

May 2023 – May 2024

- Utilized grant funding to offer community members with innovative ideas a working prototype solution.
- Developed and added features to *State of the Basin* and *Basin Climate Source*, strengthening front-end functionality and user-experience.

Volunteer

UVic Hacks Co-Founder | University of Victoria Hackathon Club

2026 – Present

- Co-founded UVic Hacks and helped organize coding events for 300+ students, supporting technical workshops, sponsorship outreach, and collaborative project based learning.

Projects github.com/jakecush1

Distance Calculator & Analyser | *JavaScript, Python, HTML*

April 2026

- Built a GPS data analysis tool that cleans raw location data and generates distance reports, helping users quickly review trip history.

DataFusion Piloting Feature | *React*

Ongoing

- Developing a new feature for users to view past trip data and track illegal fishing activity using the DataXplorer piloting interface.

Mathiné | *Vue.js, Git, Nginx*

September 2025

- Assisted in developing a centralized organizational tool for students that integrates with the University of Victoria's online learning platform.
- Fixed bugs and improved UX by collecting student feedback and refining app usability.

Client Management app | *Python, PyQt*

September 2024

- Created a PyQt contract tracking application to organize client records and improve access to key contact information.

State of the Basin | *JavaScript, Quasar, JSON database, Nginx*

May 2022 – May 2023

- Created a *Markdown-to-HTML converter* to automate building community profile pages, reducing manual data entry and streamlining content creation.
- Built an interactive front-end UI to generate and display custom community profiles, improving accessibility and user engagement.
- Developed a *Git-based auto-update script* to detect directory changes and deploy updates to the website, saving hundreds of hours of manual maintenance.

References available upon request