

Shaylen Van Pelt

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EDUCATION

Bachelor of Software Engineering, 4th year

University of Victoria

2018 – Present

Victoria, BC

WORK EXPERIENCE

Full Stack Software Developer Co-op

Certispec Services Inc.

01/2025 – 04/2025

Vancouver, BC

- Designed responsive front-end user interfaces with Next.js and managed application states using Zustand, hooks and local states.
- Optimized API endpoints through implementation of pagination for large datasets.
- Developed complex queries for PostgreSQL databases, leveraging JSONB for efficient data storage and retrieval.
- Developed and secured REST API endpoints using OAuth token handling and validation.
- Resolved bugs, implemented front-end components, and developed backend features to complete project tickets efficiently.

Software Developer Co-op (Python)

University of Victoria, Department of Civil Engineering

09/2021 – 12/2021

Victoria, BC

- Created dashboards that display information for graduate students using Dash and React.
- Used Git version control software to deal with merge conflicts.
- Created an API that downloaded zips with all data relating to technical information for each country or province on the University of Victoria website.

TECHNICAL COMPETENCIES

LANGUAGES: C, C#, Python, Java, React/Next.js, HTML, TypeScript, PostgreSQL, SQLite.

TOOLS: TailwindCSS, Git version control, Agile, Docker, Unity, RESTful API, Zustand/Redux.

EMBEDDED: FreeRTOS, STM32 microprocessor.

OS: Windows, MacOS, Linux.

PROJECTS

Bot: Developed a Discord bot using SQLite to manage virtual currency for custom gambling games, including roulette and blackjack. Implemented game logic, user tracking, and balance updates.

DeepRacer: Developed and trained reinforcement learning models for AWS DeepRacer to optimize autonomous driving performance. Fine-tuned hyperparameters and analyzed reward functions to improve race times.

Personal Website: Designed and developed a personal portfolio website (shayvanpelt.com) using Next.js and TailwindCSS. Implemented responsive design principles to ensure seamless performance across devices. Highlighted projects, skills, and professional experience, emphasizing modern web development practices.