

NATHAN PANNELL

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EDUCATION

University of Victoria | Victoria, BC

Sept 2021 - Present

B.Sc. (Computer Science with Business Minor; Expected graduation - Dec 2025)

- Award of Excellence Scholarship

WORK EXPERIENCE

Global Talent Technology Co-Op

May 2024 - Present

Teck Resources Ltd, Vancouver, BC | International Mining & Exploration

Co-Op

- Optimized global recruitment processes by managing a suite of 18 applications, significantly increasing efficiency.
- Built a custom chat bot with Copilot and Power Automate to reduce support ticket volume by 20%.
- Migrated VM-based **Python** automation script to **Azure Function Apps** to improve reliability and up-time.

Automation Developer Co-Op

May 2023 - Aug 2023

AMJ Campbell, Delta, BC | Nation-wide Logistics

Co-Op

- Created automations with REST APIs, VBA, and Excel to improve efficiency by 10% within the accounting department.
- Streamlined generation of billings and reports for accounts such as Wayfair and Crate & Barrel.
- Handled accounts payable and payroll management for Vancouver, Victoria, and Kelowna during a staff member's leave.

LEADERSHIP EXPERIENCE

Simulation Project Lead

Jan 2024 – Present

UVic AI, Victoria, BC | Student-run Educational Club

Volunteer

- Led AI-driven wildfire simulation, presented in Kingston, Ontario at the Canadian Undergraduate Conference on AI.
- Hosted university-wide hackathon with a custom submission and visualization pipeline, with sponsorship from IEEE.

PROJECTS

Wildfire Simulation with AI Agents | GitHub

- Created a cellular automata model of wildfire spread integrated with the OpenAI Gym API for an AI Conference.
- Identified a novel wildfire simulation approach, including heuristic Al firefighter agents within the simulation itself.
- Collaborated with Reinforcement Learning and Domain Expert teams to ensure interoperability and accuracy.

Interactive Hackathon Visualizer | GitHub

- Developed a real-time visualization tool with **React** and **TailwindCSS** for the UVic AI Club 2024 Hackathon.
- Designed a base-81 encoding scheme to effectively represent temporal-positional data as strings.

Virtual Rubik's Cube | GitHub | Website

Built an interactive 3D Rubik's cube with JavaScript and CSS rotations, responsive on mobile and desktop.

SKILLS

Programming Languages: Python, Java, PostgreSQL, JavaScript, HTML, CSS **Development Tools:** REST APIs, Git, Linux, Visual Studio Code, React, Tailwind **Office 365 Tools:** Power BI, Power Automate, Azure DevOps, Excel, Outlook