

VINCENT WELBOURNE

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Bilingual (English/French) Computer Engineering Technology - Computing Science student at Algonquin College, with hands-on experience across full-stack and systems-level development. Comfortable working independently or leading teams, with a strong foundation from job and school experiences.

PROJECTS

- **Nurse Charting Web Application (Team Lead) - React, Tailwind CSS, Spring Boot, MySQL:** Led a development team in a capstone industry project, architecting the full-stack application for a real external healthcare client and operating as a contracted engineering team while managing scope and client communication directly.
- **Decentralized Social Media Platform - Solidity, Sepolia (Ethereum Testnet):** Built the smart contract for decentralized post creation, editing, and deletion, packaged as a standalone app independent of any website. Chose blockchain over the trend of AI at a hackathon, earning positive judge feedback.
- **Compiler - C:** Built a compiler from scratch, implementing lexical analysis, parsing, and output generation.
- **Custom Text Editor - C:** Developed a terminal-based text editor handling file I/O, buffer management, and low-level keyboard input.
- **Auction System - C++, Qt:** Built a desktop auction app with a Qt GUI implementing bidding logic and real-time updates.
- **Quiz Game - C, SQLite:** Developed a quiz app with an embedded database for question storage and scoring.
- **Blackjack & Who Wants to Be a Millionaire - Java, JavaFX:** Built two interactive desktop games applying object-oriented design to game logic and GUI development.
- **Keylogger - C:** Built a cross-platform (Windows/Linux) keylogger for educational purposes, exploring low-level OS input handling and cybersecurity fundamentals.
- **Portfolio Website - Jekyll, HTML, CSS, Bootstrap, JS:** Designed and built a personal site to showcase projects and technical work.

SKILLS

Languages: Java, C, C++, R, Lua, 68HC11 Assembly

Web Development: HTML, CSS, Sass, JavaScript, PHP, Bootstrap, AngularJS, React, Spring Boot

Databases: SQL, PostgreSQL, MySQL, MariaDB, SQLite, Derby

Tools & Platforms: Git, GitHub, Jekyll, Linux (Ubuntu, Arch, Fedora, Kali), WSL, Networking, Arduino & Hardware Interfacing

EDUCATION

Computer Engineering Technology - Computing Science

Aug 2024 - Dec 2026

Advanced College Diploma · Algonquin College, Ottawa ON

- Currently in Level 5 of 6

EXPERIENCE

Associate

Feb 2024 - Present

Hobby Hideaway, Ottawa ON

- Informally introduced and supported technology adoption in the workplace, configuring computers, troubleshooting hardware, and assisting coworkers.
- Built Excel-based projection and marketing management systems using pivot tables, macros, and formulas, and contributing to strategic planning initiatives.

Detailer/Wrapper

Jan 2024 - Jul 2024

Luxus Auto Detailing, Ottawa ON

- Performed detailing and wrapping operations in a fast-paced environment, operating specialized tools and equipment to apply precise techniques while maintaining consistent quality standards.

Landscaper

Aug 2021 - Sep 2024

Mer Bleue Golf, Ottawa ON

- Operated specialized machinery, while training and mentoring new hires in supervisory capacities to improve team efficiency.

ADDITIONAL INFORMATION

- **Open Source:** Merged pull request fixing a buffer-related memory leak in a Java podcast app.
- **Linux & Cybersecurity Tinkering:** Linux distros (Ubuntu, Arch, Fedora, Kali) and home network configuration.
- **Cloud Exposure:** Hands-on exposure to AWS through the AWS student trial.
- **Independent Development:** Lua/Luau game development, including multiple Roblox projects.