

DAVID COMEAU

SOFTWARE DEVELOPER

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PROFESSIONAL SUMMARY

Software developer with an IT Programming diploma from NSCC and hands-on experience across React/TypeScript web applications, Python desktop tools with PySide6, and GPU-accelerated systems work. Recently served as Senior Developer / Architect on a four-person team redesigning NSCC's eCampus learning platform in Astro. Combines a prior paralegal background in legal research and document analysis with practical software engineering experience.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, C++, C#, Java, HTML5, CSS3, SQL
Frameworks & Libraries	React, Next.js, Astro, React Router, Tailwind CSS (v3/v4), PySide6, Node.js
APIs & Integrations	Hugging Face Inference API, Formspree, REST
Tools & Platforms	Git, GitHub, Vite, Vercel, Cloudflare Pages, Linux (Mint / Ubuntu), Windows 11, CUDA, BOINC
Practices	Peer code review, JSDoc / TSDoc documentation, WCAG accessibility audits, Core Web Vitals tuning, Agile / sprint-based delivery

EXPERIENCE

Senior Developer / Architect — Work-Integrated Learning Placement April 2026 – May 2026

NSCC eCampus Website Redesign · Remote

- Led architecture decisions for the rebuild of NSCC's eCampus learning portal, replacing a legacy Articulate Rise implementation with a static-first Astro site.
- Conducted the project's accessibility and performance audit, documenting 21 WCAG 1.1.1 violations, a 6.6 MB initial payload, and a configuration blocking search-engine indexing on the existing site.
- Scaffolded the Astro project, established the Git branching and PR workflow, and configured continuous deployment to Vercel.
- Collaborated with a four-person team (project manager, design lead, research/dev lead) across architecture proposal, design tokens, and component implementation.

Freelance Technical Evaluator — AI Code Verification

Apr 2026 – Present

DataAnnotation · Remote

- Evaluate AI-generated code submissions across multiple languages for correctness, runtime efficiency, and adherence to documented standards.
- Perform structured code reviews with written feedback on architecture, edge-case handling, maintainability, and readability.

Scheduling Coordinator

2023 – 2024

Pink Larkin · Halifax, NS

- Provided administrative support to lawyers in Labor and Employment law, with additional support to the Litigation group.
- Coordinated hearings, meetings, and client matters in a high-volume professional services environment.

Legal Assistant (Student)

2022

Government of Nova Scotia · Halifax / Dartmouth, NS

- Supported Provincial Court operations: trial notices, disclosure requests, and appeal book preparation.
- Managed correspondence with police services, defence counsel, and Crown Attorneys; provided reception coverage in Halifax and Dartmouth courts.

PROJECTS

J.E.R.R.Y. Support Assistant — Team Project

Python, PySide6

AI-powered IT troubleshooting and ticket management desktop application

- Designed and implemented a centralized design token system in Python, applying Tailwind methodology (slate/blue palette, semantic naming) to standardize colors, typography, and spacing across the PySide6 interface.
- Built PDF and Excel ticket export functionality for case records and audit trails.
- Collaborated within a team using Git branching, peer review, and coordinated merge cycles.

Tallow Bliss Skin Care — Team Project

React, TypeScript

E-commerce storefront, contributed across three sprints

- Authored TSDoc documentation across 81 source files and configured TypeDoc generation for the project.
- Integrated the Formspree API for transactional contact and order-inquiry forms.
- Coordinated sprint deliverables and merged work via pull requests with the broader team.

davegpt — Personal Project

Next.js, TypeScript, Hugging Face

Browser chat interface for open-source LLMs via the Hugging Face Inference API

- Built a Next.js front end calling the Hugging Face Inference API, with conversation state management and a clean message-thread UI.
- Integrated multiple open-source models (Llama 3.1 8B Instruct, DeepSeek R1, GPT-OSS 20B) with provider selection in the interface.
- Deployed to Vercel with a custom themed UI.

GPU-Accelerated Distributed Computing — INFT4000 Research Project

Linux, CUDA, BOINC

Semester research project optimizing throughput on the Einstein@Home gravitational-wave search

- Identified the Windows WDDM driver model as the GPU performance bottleneck through profiling; migrated the workstation to Linux Mint to enable direct GPU access.
- Configured CUDA Multi-Process Service (MPS) as a systemd daemon, enabling concurrent GPU kernel execution and effectively doubling task throughput on a single RTX 5090.
- Achieved sustained per-day output ranking competitively among top global contributors on the O4AS search; documented the full optimization process in a research paper and presentation.

CERTIFICATIONS

CCNA: Introduction to Networks — Cisco Networking Academy

Dec 2024

Java: Testing with JUnit — LinkedIn Learning

Oct 2025

Excel Essential Training (Microsoft 365) — LinkedIn Learning

Sep 2024

EDUCATION

Diploma in IT Programming (with Honors)

2024 – 2026

Nova Scotia Community College

Diploma in Paralegal Services

2021 – 2023

Nova Scotia Community College