

Daniel Kinsey

Software Developer

📍 Ottawa, ON

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Software developer and computer science student in Ottawa with several years of experience in programming.

Education

University of Ottawa — Honours Bachelor of Science in Computer Science

4th Year (Graduation 2024)

- CGPA of 9.56/10.
- Dean's list / Merit Scholarship recipient ×2.

Experience

Software Developer (CO-OP) — Corning Technology Center of Montreal / iBwave Solutions

September 2023 — December 2023

- In progress!

Web Developer (CO-OP) — SkyWare Labs

January 2023 — April 2023

- Developed web forms and new functionalities for a large scale **web application** and **REST API** using **Angular (Typescript/Javascript)**, **Spring (Java)**, and **PostgreSQL**.
- Implemented backend processing and parsing for airport communications, allowing for a great deal of automated data input.
- Improved invoice generation tooling with a BiRT based system, allowing for greater customization and extensibility of reports.
- Improved flight visualizations via Leaflet, allowing for easier administration of airport data.

Personal Projects

Muziko

🔗 GitHub, 🌐 Website

- Created a modern **React** based web app to consume Spotify's web API, with **Tailwind CSS** and **daisyUI** components.
- Implemented forum-style comments system using a **Firebase/Firestore NoSQL** database.

Neural Playground

🔗 GitHub, 🌐 Website

- Implemented the backpropagation machine learning algorithm from scratch, along with linear algebra in **Typescript**.
- Interfaced with vis.js to create fast, intuitive visualizations for neural networks.

Moles

🔗 GitHub, 🌐 Website

- Created a complex game structure and UI entirely with **Vue** and **Typescript**.
- Extensively used object oriented design patterns to create a simple, easily extensible framework for the game, allowing structural modification down the line.

Skills

- **Programming:** $\left\{ \begin{array}{l} \text{Fluent:} \quad \text{C, HTML/CSS, Java, Javascript, Python, SQL, Typescript} \\ \text{Familiar:} \quad \text{Assembly, Go, Kotlin, Rust} \end{array} \right.$
- **Technologies/Frameworks:** Android, Angular, BiRT, Bootstrap, daisyUI, Leaflet, Node.js, PostgreSQL, React, RxJS, Spring, Tailwind CSS, vis.js, Vue
- **Software:** Git, Jira, Linux, Unix