

# Daniel Kinsey

Software Developer

📍 Ottawa, ON

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## Summary

Computer science student and **software developer** in Ottawa with several years of experience in programming.

## Education

**University of Ottawa** — Honours Bachelor of Science in **Computer Science**

*3<sup>rd</sup> Year (Graduation 2024)*

- CGPA of 9.62/10.
- Dean's list / Merit Scholarship recipient ×2.

## Experience

**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

**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:** Proficient in C, Java, Javascript, Python, SQL, Typescript. Familiar with Assembly, Kotlin, Rust
- **Technologies/Frameworks:** Android, Angular, BiRT, Leaflet, Node.js, PostgreSQL, RxJS, Spring, vis.js, Vue
- **Software:** Git, Jira, Linux, Unix