

# Daniel Kohn

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## EDUCATION

### University of Waterloo

Waterloo, ON

*Candidate for BMath Computer Science and Applied Mathematics with co-op*

*2023 – 2028*

- Term Distinction in all completed academic terms - 91% Cumulative Average
- **Relevant Coursework:** Data Structures, Object-Oriented Programming, Sequential Programs, Computer Organization, Differential Equations, Calculus I-IV, Linear Algebra, Theoretical Mechanics

## SKILLS

**Languages:** Python, C, C++, Java, C#, SQL, MongoDB, JavaScript, HTML, CSS

**Frameworks:** Svelte, NodeJS, Flask, Django

**Developer Tools:** Linux (Arch and Ubuntu), Windows, Mac OS, Bash, Vim, VS Code, Git, GitHub

**Human Languages:** English (native), French (near native)

## RELEVANT EXPERIENCE

### Technical Analyst Co-op (Software Developer)

Toronto, ON

*Ontario Ministry of Transportation - Digital Solutions Branch*

*June 2024- August 2024*

- Upgraded a legacy Angular 7 app to Angular 17 by leveraging the Angular CLI and manually intervening to fix broken dependencies resulting in the removal of a flagged security risk
- Migrated all pages of a web application from the legacy Angular Flex-Layout system to the modern CSS Flexbox and Grid systems
- Fixed 200+ WCAG violations across several web applications identified with Axe Devtools or by the QA team in order to comply with Government of Ontario accessibility legislation
- Implemented UI automation tests for a web application using Selenium and NodeJS to achieve 80%+ test coverage for the front-end

## PROJECTS

### RAINET Board Game (CS 246 Final Project) | C++, Design Patterns

- Implemented the RAINET board game leveraging C++ and the Observer and MVC design patterns

### gitlet | Python

- Built a python tool that mimics several of git's local features including commit, branch, and merge
- Implemented code for efficient storage, modification, and retrieval of code repository data, modelling it using a directed acyclic graph

### linktree clone | Svelte, SvelteKit, NodeJS, MongoDB, Bulma CSS

- Built a clone of the popular site linktree that allows users to generate a custom site that contains links to their social media sites with an interactive drag and drop user interface
- Implemented session based authentication and password encryption from scratch

### Chat Application | Python, Django, WebSockets, Javascript, SQLite, Bootstrap CSS

- Developed a full-stack chat application with Django storing user data, messages, and notifications in a SQLite Database
- Utilized the Django-Channels library to create a WebSocket connection to allow users to send and receive messages and notifications in realtime

**Other:** Chemistry Elements Quiz , dotfiles 