Daniel Kohn

dmkohn@uwaterloo.ca | linkedin.com/in/daniel-kohn/ | github.com/DanielKohn1208 | danielkohn1208.github.io

EDUCATION

University of Waterloo   Waterloo, ON
Candidate for BMath Computer Science and Applied Mathematics (91% Cummulative Average)   *2023 – 2028*
Relevant Coursework:
Mathematics: Real and Complex Analysis, Computational Mathematics, Calculus of Variations, ODEs, PDEs, Theoretical (Classical) Mechanics, Applied Differential Geometry, Quantum Theory, Math of Quantum Information
Computer Science: Algorithms, Data Structures, Sequential Programs (Compilers), Operating Systems, Object Oriented Software Development, Computer Organization and Design

SKILLS

Languages: Python, Matlab, C, C++, Java, C#, SQL, MongoDB, Typescript, Javscript, HTML, CSS
Frameworks: Django, NodeJS, Angular, Svelte, ASP.NET
Developer Tools: Linux, Git, GitHub
Human Languages: English (native), French (near native)

EXPERIENCE

Software Developer Co-op   Waterloo, ON
Tangam Systems - Research and Development Team   *May 2025 - August 2025*
- Developer on an industry leading table game yield management system trusted to optimize profits on 10,000+ tables in the world's largest casinos working on new features, enhancements, and bug fixes
- Lead the port of a legacy ASP Web Forms Page used to simulate table game revenues to Angular 17, Typescript, and .NET Web APIs significantly advancing technical debt goals and modernizing the user experience
- Collaborated with the customer success team in order to implement features to enhance and facilitate demos to potential clients at industry wide trade shows

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
- 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

WLP4 Compiler (CS 241) | *C++, MIPS Assembly, Compiler Knowledge*
- Implemented a compiler for a C-like language in C++ targeting MIPS leveraging concepts from compilers course

RAIINET Board Game (CS 246) | *C++, Design Patterns*
- Implemented the RAIINET 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 modelling the commit tree as a directed acyclic graph

Selected Web Projects | *Svelte, Django, Python, Javascript, MongoDB, SQL, WebSockets*
- Implemented a clone of linktree ⧉ using Svelte/MongoDB and a chat application ⧉ with Django/WebSockets

OTHER

Drop In Mathematics Tutor   Waterloo, ON
University of Waterloo   *September 2025 - Present*
- Provided drop in tutoring support for Honors Calculus I–III and Calculus I-II for the sciences helping students prepare for weekly assessments and improve their understanding