

Daniel Kaminsky

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EDUCATION

University of Western Ontario

London, ON

Honours Specialization in Computer Science (BSc)

Expected Graduation April 2027

- 3.9/4.0 GPA (**93%**), Western Dean's List (2023 & 2024)
- Courses: Data Structures & Algorithms, Computer Networks, Intro to Machine Learning, Object Oriented Design
- Clubs: Computer Science Undergraduate Society (VP Finance), Western Tech for Social Impact (Developer)

EXPERIENCE

Software Engineer Intern

June 2025 – August 2025

Entree Capital

- Built a central dashboard using **Next.js**, **Node.js**, and **Snowflake**, reducing the time for partners to evaluate founders by **60%** and streamlining the investment decision-making process.
- Optimized **tRPC** procedures and **SQL** database queries to reduce API response times by **30%**, improving data retrieval efficiency and enhancing overall application performance
- Collaborated with stakeholders and senior engineers in an **Agile** environment, contributing to sprint planning, code reviews, and feature prioritization

Design Thinking Fellow

September 2025 – November 2025

RBC

- Selected as **1 of 32** students from **350+** applicants and awarded a **\$3,500** stipend; conducted detailed user research by interviewing **10+** education stakeholders to understand challenges in responsible classroom AI use
- Translated research insights into a high-fidelity Figma prototype using design-thinking methods and pitched the final solution to **30+** RBC and Western executives during the cohort showcase

Project Manager

September 2025 – Present

Western Developer Society

- Leading an **8-person** engineering team building an educational platform for TalkMaze, drafting functional and non-functional **requirements**, aligning scope with clients, and guiding technical decisions
- Architected the **backend data layer** (relational schema, auth, storage, API integrations), spearheaded the Next.js frontend, and managed Agile workflows through Linear and weekly **scrums**

PROJECTS

SecureFrame — Selective Video Encryption Tool [Github](#)

- Won **1st place** at the Toronto Tech Expo Cybersecurity competition with a CNN-powered YOLOv8 encrypted video-redaction tool for safeguarding sensitive regions in video frames.
- Designed a custom video-data pipeline that preserved frame-level information during encryption, enabling fully reversible redaction with **100%** data-integrity recovery.

OrderBook — High-Performance C++ Backend Engine [Github](#)

- Built a from-scratch limit order book implementing **price-time priority**, ensuring correctness with **100%** unit test coverage and automated testing/builds via **GitHub Actions** and **CMake**.
- Designed **9 focused classes** with isolated responsibilities, enabling efficient order lookup and low-overhead matching while maintaining clear documentation and comments.

Prompt2Cart — Agentic Shopping Platform [Github](#)

- Developed a real-time shopping platform using **FastAPI**, **LangGraph**, **Groq** (Llama 3), and **React**, leveraging the **Shopify MCP** to enable autonomous product discovery and checkout across multiple storefronts.
- Implemented **MongoDB** for session persistence and user preferences, enabling **personalized** shopping flows.

TECHNICAL SKILLS & CERTIFICATIONS

Certifications: AWS Certified Cloud Practitioner

Languages: Python, JavaScript, TypeScript, Java, C, C++, SQL

Frameworks: React, Next.js, Node.js, Express.js, Flask, tRPC, Spring Boot, FastAPI

Libraries: TensorFlow, NumPy, Polars, Pandas, Scikit-learn, Gtest, LangGraph

Tools & Platforms: Git, GitHub Actions, AWS, Docker, PostgreSQL, MongoDB, Figma, REST, Linux, MS Office

Interests: Volleyball, Long Distance Running, Roman History, Philosophy, Weightlifting