

Dennis Kaydalov

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EDUCATION

Toronto Metropolitan University (formerly Ryerson)

Sep. 2023 – Present

Mathematics and It's Applications - BSc (Co-op)

Toronto, ON

- Pursuing a minor in Computer Science.
- Expected graduation: Apr. 2027.
- Relevant Coursework: Data Structures and Algorithms, Computer Organization, Statistics, Probability, Analysis.

EXPERIENCE

Shopify

May. 2025 - Aug. 2025

Software Engineering Intern

Toronto, ON

- Backend development on the Retail Kernel team, designed and built Shopify Retail Kernel APIs with Ruby, Ruby on Rails and using technologies such as GraphQL and MySQL.
- Contributed to prototyping Retail Kernel functionality, building a safe and scalable API layer for Retail APIs.
- Winner of internal Shopify Shop Minis Hackathon with Ruby, React Native and TypeScript.
- Built and released a first-party Shop Mini to the Shop App for general access to over 20 million users.

Shopify

Jan. 2025 - Apr. 2025

Software Engineering Intern

Toronto, ON

- Backend development on the In Store Orders team, building Shopify Point of Sale and developing returns and exchanges APIs with Ruby, Ruby on Rails, and BigQuery.
- Contributed to project technical design of core internal API migration, with implementation in Ruby.
- Increased complete test coverage of core Rails models, increasing resiliency by over 200%.

Infinite Investment Systems

Apr. 2024 - Dec. 2024

Software Engineering Intern

Toronto, ON

- Created natural language to SQL services using Azure OpenAI, LangChain and LlamaIndex with Retrieval-Augmented Generation (RAG) to simplify database data aggregation.
- Wrote efficient ETL services using Python and PostgreSQL to ingest data from 400+ firms.
- Utilized Docker, Kubernetes and Azure Pipelines to deploy scalable microservices.
- Designed and built an internal build automation tool with Docker and VSC Dev Containers.

Applied Post

Mar. 2024 - Mar. 2024

Software Engineer

Toronto, ON

- Conducted a cost-benefit analysis of AWS storage offerings, resulting in 40% lower archive storage costs.
- Executed the move of 200TB of data from S3 Standard Storage to S3 Deep Glacier.
- Scheduled and automated daily transfer of data from S3 bucket through EC2.
- Used CloudWatch and Lambda through the AWS CLI and Python to create data automations.

PROJECTS

Multi-Agent Trading Simulator

- Built a simulated multi-agent stock market to practice trading against AI agents, including simulated market events and market makers, also allowing user trades and interactions.
- Used Python with Flask and Llama Models with Groq Inference to create a simulated market with AI traders.

ICPC Problems Tracker

- Created a problems tracking bot for International Collegiate Programming Contest (ICPC) preparation, the most famous competitive programming olympiad.
- Used Python, MySQL and AWS EC2 to track problems solved by team members from all supported platforms, used to provide insights, recommendations and foster collaboration.

SUMMARY OF QUALIFICATIONS

Programming Languages: Python, Ruby, C, C++, C#, Java, JavaScript, TypeScript

Systems: Amazon Web Services (AWS), Microsoft Azure, Windows, Linux

Databases: PostgreSQL, MySQL, Microsoft SQL Server, Redis

Technologies: Git, Docker, Kubernetes, Ruby on Rails, LangChain, LlamaIndex, React

Concepts: Backend, Frontend, Fullstack, Agile, Version Control, Cloud, Operating Systems