Dennis Kaydalov

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EDUCATION

Toronto Metropolitan University (formerly Ryerson) Sep. 2023 – Present
Mathematics and its Applications - BSc (Co-op) *Toronto, ON*
- Expected graduation: Apr. 2027.
- Pursuing a minor in Computer Science.
- Awarded the entrance scholarship in Sep. 2023.

EXPERIENCE

Shopify Jan. 2025 - Aug. 2025
Software Engineering Intern *Toronto, ON*
- Built and released a first-party Shop Mini to the Shop App for general access to over 20 million users.
- Winner of internal Shopify Shop Minis Hackathon with Ruby, React Native and TypeScript.
- Backend development with Ruby and Ruby on Rails on the In Store Orders team, building Shopify Point of Sale.
- Used tools such as MySQL, GraphQL and BigQuery to build Point of Sale APIs.

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 and Kubernetes to deploy scalable microservices, additionally using Azure Pipelines to easily build and test deployments.
- Designed and built an internal build automation tool with Docker and VSC Dev Containers.

Applied Post Mar. 2024 - Mar. 2024
Software Engineer Contractor *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

Dev Flow
- Built an automated Kanban interface. Automatically create, assign and move tickets from Github pushes, streamlining CI/CD with GitHub Actions.
- Used Python with FastAPI and AWS EC2 to build and deploy an efficient backend.

Multi-Agent Trading Simulator
- Built a simulated multi-agent stock market to practice trading against AI agents, including simulated market events and market makers.
- Used Python with Flask and Groq Inference to create a simluated market with AI traders.

Kolon Programming Language
- High level programming language interpreter built with C#.
- Python and Ruby like syntax, built to be easy to read and optimized for efficiency.

SUMMARY OF QUALIFICATIONS

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

- **Operating Systems:** Windows, Linux (Debian, Arch)

- **Databases:** PostgreSQL, MySQL, Microsoft SQL Server, Redis

- **Technologies:** Git, Docker, Kubernetes, Ruby on Rails

- **Cloud Services:** Amazon Web Services (AWS), Microsoft Azure & Azure DevOps, Firebase