

Devon Knight: Last Co-Op Summer 2026

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EDUCATION

B.A.Sc. Software Engineering (Co-Op)

University of Ottawa

Ottawa, ON, Canada, 12/2026

- **CGPA: 3.95 / 4.00:** Data Structures and Algorithms, Android Dev, Digital Logic, Operating Systems, Linear Algebra.
- **Leadership:** World Dragonboat Athlete 2024, Class Rep, Board of Directors, Funding Manager, Deans Honor Roll

SKILLS

- **Proficient:** Python, FastAPI React, Java, Git, Linux, GitHub, Docker, GPT, CrewAi, Front-End, , HTML/CSS, Agile.
- **Experienced:** Unix, Bash, TypeScript, ReactJS/Native, JavaScript, MongoDB, REST APIs, SQL, MySQL, JSON.
- **Familiar:** C, C#, Android, Shell, Splunk, Assembly, Groovy, Jenkins, Maven, Gradle, Kubernetes, Node, NEXT, R.

WORK EXPERIENCE (6 of 17)

Data Scientist (8 Month Co-Op)

Thales Group

Ottawa, ON, Canada, 09/2025 – 04/2026

- Built **LLM RAG** and Machine Learning models using Python to support high level military applications.
- Leading the **backend** design of proof-of-concepts using Python FastAPI, Neo4J Graph databases, and Docker.
- Implemented robust **ETL/ELT pipelines** to ingest and transform complex operational data for analytical use.

Full Stack Software Engineer (4 Month Co-Op)

Intuit

Toronto, ON, Canada, 05/2025 – 09/2025

- Developed the TurboTax product recommendation flow, boosting **\$278M, +(9%) revenue**, with multivariate testing.
- Designed new A/B Test flows using TypeScript, React, Kotlin, Java, and Player UI (Intuits open-source tech stack)
- Led a new **onboarding app from**, introducing automated testing with Gen AI for quick adaption.

Machine Learning Engineer (4 Month Co-Op)

RBC Gen AI Lab

Toronto, ON, Canada, 09/2024 – 01/2025

- Contributed to 3 **LLM POCs** by gathering user stories and balancing development priorities with business value.
- Built an LLM-assisted case generator, enabling instant client resolution, **reducing case resolution time by ~70%**.
- Led a LLM project that cleans and validates **500K addresses** with **99.99%** confidence, **saving 1000's** of manhours.
- Utilized **vector databases** (Qdrant, ChromaDB, Pinecone) to optimize storage and retrieval, improving efficiency.

DevOps Engineer (4 Month Co-Op)

Royal Bank of Canada

Toronto, ON, Canada, 01/2024 – 05/2024

- Contributed to Canadian Technology History with a CI/CD pipeline enabling the **48hr acquisition** of HSBC to RBC.
- Reduced **Gradle build and deploy time** by 15% with Groovy that operate HTTP proxies and Open-Shift Containers.
- Built a prototype **DevOps pipeline** with **GitHub Actions** and Runners, increasing efficiency across 54 Dev Teams.
- Led a DevOps project tracking **1,000's** of developer commits, enhancing productivity and minimizing disruptions.

Software Developer (8 Month Co-Op)

Ciena

Ottawa, ON, Canada, 05/2023 – 12/2023

- Served Google, Amazon, Twitch, Meta, and Microsoft clients with an upgrade to **47 server microservices**.
- Co-led a **back-end NoSQL MongoDB** database testing feature catching 12+ faults and prevented major incidents.
- Led **44+ features** across 18 repositories using C, Python, JSON, Jenkins, Shell, Linux, Bitbucket, and Git.
- Implemented a novel **Python Unit Test** framework with 17 test suites that runs in an impressive 0.10 seconds.

Machine Learning Research Assistant

University of Toronto

Toronto, ON, Canada, 05/2019 – 09/2022

- Conducted **data-analysis** from 28 patients using Python, Microsoft Excel and R-Studio with weekly data-reports.
- Co-led a clinical study that used Felix AI to address patient concerns showing **83% improved patient outcomes**.
- Co-authored a peer-reviewed publication on ML application in post-operative recovery, **cited 25+ times** in the field.

LEADERSHIP (2 of 13)

Development Director -> Partnerships Advisor

uOttahack

11/2022 – Present

- Increased **company partnerships** by **77.8%**, funding by **36.3%**, project submissions by **55%**, attendees by **32%**.
- Built international partnerships with HKUST Hong Kong and Tec de Monterrey Mexico with uOttawa Canada.
- Directed a team of 30 to develop the **official site** and **live-event site** using Node, React, NoSQL and Vercel.

Co-Founder

VaporWare Games

01/2024 – Present

- Developing **2D games** using **Godot Game Engine** and **Aseprite**, for an immersive product for content creators.
- **Collaborated with art designers** to build gameplay mechanics using **C#**, creating a working game prototype.

PROJECTS (2 of 22)

Co-Med

AI Triage in the ER

github.com/uOttahackUofT/Co.med

- A full-stack AI-assisted hospital triage app using Cohere's LLM, enabling shorter triage and emergency wait times.
- Utilized supervised learning to suggest diagnoses and triage levels, offering sources to support medical decisions.

uOttahack

Event Data-Tracking

github.com/Devcon324/uOttahack

- Developed an event tracker mobile application that tracked **856+ client** attendance, food, and raffle tickets.
- Built as a **full-stack mobile app** with React Native, HTML, CSS, JavaScript and Google Cloud's Firebase