

Devon Knight

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EDUCATION

B.A.Sc. Software Engineering (Co-Op) **University of Ottawa, Canada** **Graduating 12/2026**
GPA: 3.95 / 4.00 | Featured Co-Op student | Class Rep | Deans Honor Roll | Club Director | World Dragonboat Athlete

SKILLS

Languages/Tech: Python | Java | TypeScript | HTML | CSS | JavaScript | Kotlin | Docker | Kubernetes | Linux | NGINX
Web Frameworks: FastAPI | Spring Boot | React | PlayerUI | Android | React Native | Node | Vite | NextJS | REST | JWT
AI/Data Science: Probability | Statistics | Keras | Tensorflow | PyTorch | LangChain | LangGraph | Pandas | Numpy
Databases: Neo4J | ChromaDB | Qdrant | Pinecone | SQL | MySQL | MongoDB | Splunk | Elasticsearch
Communication: \$77K+ in Sponsorship Deals | 2x Public Speaker at CUSEC | Top 3 Talk at UofT OQUIC | 6x Other Talks

WORK EXPERIENCE (5 of 18)

Thales - Navy AI Data Scientist (Secret II) Ottawa, Canada 09/2025 – Present

- Led a key project in the **\$5.2B Navy Contract** and **secured direct funding** to deliver a proof of concept to production.
- Delivered a **Full-Stack RAG** platform to query military data with ML insights using React, FastAPI, Neo4J, Docker.
- Implemented ML **Genetic Algorithms (NSGA-II)** and containerized ML microservices for internal and client apps.
- Built scalable **ETL/ELT pipelines** for data embedding of **10K+** PDFs into **vector databases** with **OCR, VLM, Haystack**.
- Led the **Backend** data projects, building graph queries, and containerized microservices for internal and client apps.

Intuit - TurboTax Full Stack Software Engineer Toronto, Canada 05/2025 – 09/2025

- Developed **data-driven** webpage variants for customer pricing offers and onboarding flow, in **Java, React, PlayerUI**.
- Collaborated to achieve **\$278M (+9%)** increase in revenue with a 23-engineer team for TurboTax onboarding flows.
- Delivered a new **Credit Karma/TurboTax** transition flow **A/B testing** framework for millions of users in **Kotlin/Java**.
- Presented talks in Intuit's new **Generative AI Guild**, training **100+ engineers** on open-source AI tools and practices.

RBC GenAI Lab - Machine Learning Engineer Toronto, Canada 09/2024 – 01/2025

- Delivered a **production-level anti-fraud** application for 3 countries, validating **500K+** addresses at **99.96%** precision.
- Built an **investment report analyst** AI agent using LangChain, reducing review time of earnings reports time by **70%**.
- Improved data processing **by 37%** with a custom **Regex parsing engine** and benchmarks on **HereAPI** and **Cohere**.
- Led **communication with clients**, deriving functional requirements, and deliverable features for productive sprints.

RBC Capital - Capital Markets DevOps Engineer Toronto, Canada 01/2024 – 05/2024

- Built a **monitoring microservice** that tracks production errors, boosting production velocity of **1000s** of engineers.
- Spearheaded a dashboard project for DevOps (**Cisco Splunk, Elasticsearch**) aggregating CI/CD metrics for **30+ apps**.
- Deployed a scalable **GitHub Actions** pipeline using **K8s** and **OpenShift containers** on an **RHEL Linux Server**
- Achieved a **15%** reduction in **Gradle** build/deploy time using **Groovy** HTTP proxies and dependency optimization.

Ciena - Software Developer Ottawa, Canada 05/2023 – 12/2023

- Led production upgrades across **47 microservices** supporting high-traffic clients (**Google, Amazon, Meta, Twitch**).
- Built **17** ultra-fast database migration tests (avg 0.10s) preventing **12** production-blocking failures pre-release.
- Delivered **40+ features** across **20+ codebases** using C-programming, Python, and distributed system tooling.
- Created **20+ Python** unit-testing suites for a **NoSQL** database to accelerate data-integrity and validation workflows.

LEADERSHIP AND (3 of 36)

uOttHack - Investment Director/Advisor Canada's Largest Hackathon 09/2022 – Present

- Increased **funding** by **36.3%** | **company partnerships** by **77.8%** | **project submissions** by **55%** | **attendees** by **32%**.
- Secured **international partnerships** across **Hong Kong** and **Mexico's** leading universities alongside uOttawa.

Independent Research in Cancer and ML UofT & Western 08/2020 – 03/2024

- Research student, using **Python and PyMol**, found genetic targets for cancer, with **18 citations**: Paper 1 | Paper 2.
- Data-analyst working with MD's that used Felix AI, an **NLP model** that boosts recovery, with **49 citations**: Paper 3.

Rules-Lawyer - Customizable AI Boardgame Agent

- Upload a manual PDF to a **custom AI Agent**. Built in JWT FastAPI/React, OCR, VLM Models, Neo4J GraphDB