Devon Knight

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EDUCATION

B.A.Sc. Software Engineering (Co-Op)   **University of Ottawa**, Canada   **Graduating 1/2027**
GPA: 3.95 / 4.00 | Featured Co-Op student | SWE Class Rep | 8x Scholarships | World Championship Dragonboat | Deans Honor Roll

SKILLS

Languages/Tech:	Python	Java	Typescript	JavaScript	HTML5	CSS3	Docker	Kubernetes	Linux	Cisco CCNA
Web Frameworks:	FastAPI	React	Spring Boot	React Native	PlayerUI	Node	Vite	NextJS	REST API's	JWT
AI/Data Science:	Probability	Statistics	Keras	Tensorflow	PyTorch	LangChain	LangGraph	Pandas	Numpy	Haystack
Databases:	Neo4J	ChromaDB	Qdrant	Pinecone	SQL	MySQL	PostgreSQL	MongoDB	Firebase
Communication:	$77K+ in Sponsorship Deals	2x Public Speaker at CUSEC	Top 3 Talk at UofT OQUIC	6x Conference Talks

WORK EXPERIENCE (5 of 7)

Thales - *Data Scientist*   *Ottawa, Canada*   *9/2025 – Present*

- Led a key project in the **$5.2B Contract** to defend Canada and granted **direct funding** to deliver the project to production.
- Delivered a **Full-Stack** data platform to query live military data and gain ML predictions using FastAPI, Haystack, Neo4J, Docker.
- Implemented ML **Genetic Algorithms (NSGA-II)** and containerized ML microservices for internal and client apps.
- Built scalable **ETL pipelines** converting raw data tables and documents to embeddings in **vector databases** with **OCR, Haystack**.
- Led **Backend** development of key projects, building graph queries, and containerized microservices for internal and client apps.

Intuit - *Full Stack Software Engineer*   *Toronto, Canada*   *5/2025 – 8/2025*

- Developed **data-driven** webpage variants for customer pricing offers and onboarding flow, in **Java/Kotlin, React, PlayerUI**.
- Delivered an automated testing framework in Java for test-driven development of **Credit Karma** to **TurboTax** onboarding flow.
- Presented talks in Intuit Toronto's new **Generative AI Guild**, training **50+** engineers on the latest open-source Agentic AI tools.
- Collaborated with a **23**-engineer team for TurboTax onboarding flows that achieved an increase in TurboTax revenue by **9%**.

Royal Bank of Canada - *Machine Learning Engineer*   *Toronto, Canada*   *9/2024 – 12/2024*

- Delivered a **production-level anti-fraud** application for 3 countries, validating **500K+** addresses with **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%** by implementing a custom **RegEx** parsing algorithm and benchmarks on **HereAPI** and **Cohere**.
- Led **communication with clients**, deriving functional requirements, and deliverable action items for productive Agile sprints.

Royal Bank of Canada - *DevOps Engineer*   *Toronto, Canada*   *1/2024 – 4/2024*

- Built a **monitoring microservice** that tracks production errors, boosting production velocity of **1000s** of engineers.
- Spearheaded a DevOps dashboard project with CI/CD metrics for **30+** apps logged in **Splunk, Elasticsearch** reducing downtime.
- Replaced **Jenkins** with a scalable **GitHub Actions** pipeline using **Kubernetes** and **OpenShift containers** on an **RHEL Linux Server**
- Achieved a **15% faster** build & deploy time by automating manual build tasks with Gradle, Groovy, & Kubernetes

Ciena - *Software Developer*   *Ottawa, Canada*   *5/2023 – 12/2023*

- Led production upgrades across **47 microservices** supporting high-traffic clients such as **Google, Amazon, Meta, Twitch**.
- Built **17** fast DB migration tests (avg 0.10s) using Python and MongoDB, preventing 12+ production-blocking failures pre-release.
- Delivered **34+** features across **20+** codebases using C, Python, expanding product functionality and improving user satisfaction.
- Created **20+ Python** unit-testing suites for a **NoSQL** database to accelerate data-integrity and validation workflows.

LEADERSHIP AND PROJECTS (3 of 23)

uOttaHack - *Sponsorship Director/Advisor*   *Canada's Largest Hackathon*   *9/2022 – Present*
- Responsible for boosting funding by **36.3%**, sponsorship deals by **77.8%**, project submissions by **55%**, and attendees by **32%**.
- Directed a cross-functional team across **Ottawa**, **Hong Kong** and **Mexico's** leading universities with University of Ottawa.
- **Capstone Project**: Developing a CRM with **React**, **BunJS**, **FastAPI** that will empower hackathons and companies in collaboration.

Research in Cancer and Machine Learning   *UofT & Western*   *8/2020 – 3/2024*
- Research student, used **Python and PyMol**, to identify genetic targets for children's cancer, with **18 citations**: Paper 1 | Paper 2.
- Data-analyst, found that using Felix AI, an **NLP model**, boosted post-surgical recovery and saved time, with **49 citations**: Paper 3.

Co-Medical - AI Triage Nurse   *University of Toronto Hacks 11*   *1/2024*
- Built an **LLM**-powered **Triage consultant** web app using Python, Cohere LLM, & NextJS to reduce emergency room waiting time.
- Utilized **Cohere Classify** as a supervised learning analogue to provide triage and diagnosis with citations to scientific sources.