

Devon Knight

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EDUCATION

University of Ottawa, Bachelor of Applied Science, Software Engineering (Co-Op)

Graduating Jan 2027

GPA: 3.95, Stanford University TreeHacks Winner (NVIDIA Edge AI Challenge), Class Rep, World Championship Dragonboat Team

SKILLS

Languages: Python, Java, C, Typescript, JavaScript, HTML5, CSS3
Web Frameworks: FastAPI, React, Spring Boot, React Native, PlayerUI, Node, Vite, NextJS, REST API's, JWT
AI and Data Science: PyTorch, Tensorflow, Keras, SciKit, LangChain, LangGraph, Pandas, Numpy, Haystack, Probability, Statistics
Databases: Neo4J, ChromaDB, Qdrant, Pinecone, SQL, MySQL, PostgreSQL, MongoDB, Firebase, Supabase
DevOps: Docker, Kubernetes, Linux, GitHub Actions, Jenkins, GitLab CI, Splunk, Agile, Git, Cisco CCNA

EXPERIENCE

Thales, Data Scientist Intern

Ottawa, Canada

Sept 2025 – Present

- Spearheaded a pivotal project within a **\$5.2B Defense Contract**, securing **direct funding** to deliver a full-stack data platform.
- Oversaw 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)** to provide heuristic analysis and optimal choices for effortless client decisions.
- Built scalable **ETL pipelines** converting raw data tables and documents to embeddings in **vector databases** with **OCR, Haystack**.
- Defined **Backend** development of key projects, building graph queries, and containerized services for internal and client apps.

Intuit, Full Stack Software Developer Intern

Toronto, Canada

May 2025 – Aug 2025

- Developed **data-driven** webpage variants for customer pricing offers and onboarding flow, in **Java/Kotlin, React, PlayerUI**.
- Refined 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 Intern

Toronto, Canada

Sept 2024 – Dec 2024

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

Royal Bank of Canada, DevOps Engineer Intern

Toronto, Canada

Jan 2024 – Apr 2024

- Conducted 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 **15% faster** build & deploy time by automating manual build tasks with Gradle, Groovy, & Kubernetes

Ciena, Software Developer Intern

Ottawa, Canada

May 2023 – Dec 2023

- Led production upgrades across **47 microservices** supporting high-traffic clients such as **Google, Amazon, Meta, Twitch**.
- Innovated on **17** fast DB migration tests (avg 0.10s) using Python MongoDB, preventing 12+ production failures pre-release.
- Established **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.

PROJECTS

CalTrack – NVIDIA Edge AI Winner 2nd Place

Stanford University TreeHacks

Feb 2026

- Simplified crisis prediction by mapping **650K** users over high-risk fire zones using an **Apple WIFI Hack** and NVIDIA Earth2 model.
- Empowered 911 operators during current crisis with a **911 conversational AI Agent** built with Twilio, NVIDIA Nemotron models.
- Extracted impactful data from phone calls using CrewAI to **geolocate events** and **triage** for efficient **hospital load-balancing**.

uOttHack, Sponsorship Director/Advisor

Canada's Largest Hackathon

Sept 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, Mexico, and Hong Kong's** leading universities with University of Ottawa.
- **Capstone Project:** Currently developing a **CRM** to simplify the hackathon directing experience for students and companies.

Research in Cancer and Orthopaedics

UofT & Western

Aug 2020 – Mar 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](#).