Devon Knight: Software Engineer Co-Op Internship Summer 2025

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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.
- **World Championship Athlete 2024, Class Rep, ENG Board of Directors, Funding Manager, Deans Honor Roll**

H.B.Sc. Medical Science CGPA: 3.92 / 4.00   **Western University**   *London, ON, Canada*

SKILLS

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

WORK EXPERIENCE

Machine Learning Engineer (4 Month Co-Op)   **RBC Gen Ai Lab**   *Toronto, ON, Canada,* **09/2024 – 01/2025**
- Co-developed an **LLM-assisted** case generator with **CrewAi, Llama 70B**, achieving instant advisor case resolution.
- **Automated** investment reports in **24s** per stock showing a **99.994%** confidence in **LLM's** saving mean work hours.
- Built a **full-stack** address cleaner saving **1,000's** of man-hours using **React, JS**, **Langchain** and **LlamaIndex**.
- Utilized **vector databases** such as **Qdrant**, **ChromaDB**, and **Pinecone** for efficient data storage and retrieval.

DevOps Engineer (4 Month Co-Op)   **Royal Bank of Canada**   *Toronto, ON, Canada,* **01/2024 – 05/2024**
- Contributed to **Canadian Technology History** with the seamless **48**-**hour** acquisition of HSBC technology to RBC.
- Reduced **Gradle build and deploy time** by **15%** with **Groovy** that operate HTTP proxies and Open-Shift Containers.
- Built **1 Prototype DevOps pipeline** with **GitHub Actions** and Runners, increasing efficiency across **54 Dev Teams**.
- Designed an **automated DevOps control panel** tracking **1,000's** of developer commits and managing downtime.

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 **24+ JIRA's** 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** showing **83% decrease in** surgery complications with patient-Ai-doctor interaction.
- **Co-authored a peer-reviewed publication** on the use of ML in post-operative recovery, **cited 25+ times** in the field.

Computational Genetics Researcher   **Western University**   *London, ON, Canada***, 06/2018 – 05/2019**
- Identified **4 Cancer-Causing genes** using **Linux**, **Python,** and **3D modelling**, **saving over $8,000** of lab materials.
- Presented **4 Canadian medical research conferences**, receiving **3**[rd] **place** out of 26 students in Ontario-Quebec.
- **Co-authored 2 scientific papers & led 3 talks,** collectively achieving over **1,000+ downloads** and **cited 10+ times.**

LEADERSHIP

Director & Software Developer   **uOttaHack**   **11/2022 – Present**
- **Represented Canada** and built an *international* collaboration between **uOttaHack** and **Tec de Monterrey** to bring accessible resources to **800+** students **across the world** becoming **the only Canadian international hackathon.**
- Coordinated an **800+ student hackathon** by building an *official site* and *live-event site* using **Node/ReactJS**.
- Yielded an annual marketing impact of **44.8k views**, and **25 Company Partners** with new team strategies.

Co-Founder   **VaporWare Games**   **01/2024 – Present**
- Developing with **Godot Game Engine** and **Sprite-work** in **Aseprite** to produce a captivating 2D horror survival game.
- Utilized **GDScript** and **C#** with Art designers to implement the game in the Godot Game Engine to create a prototype.

PROJECTS

The NeverEnding Story   **Gen Ai Lore Building**   *github.com/Devcon324/NeverEnding-Story*
- Developed an infinite **D&D game** story with **Meta Llama 3.2 90B** generating a chapter every hour using **Linux bash**.
- Designed an algorithm in **Python** to read files quickly and feed the story to **AI** to write the proceeding chapter

Co-Med   **UofT Hacks 11**   *github.com/uOttaHackUofT/Co.med*
- A **full-stack LLM AI-assisted** hospital triage app built with **ReactJS**, **REST**, **Next.js**, and **Cohere's LLM Gen Ai**
- Utilized **supervised learning** to provide suggested diagnosis, prognosis, and triage level with ranked sources.

uOttaApp   **uOttaHack Development Team**   *github.com/Devcon324/uOttaApp*
- Developed an event tracker mobile application that **tracked 650+ students'** attendance, food, and raffle tickets.
- Built as a **full-stack mobile app** with **React Native, HTML, CSS, JavaScript** and Google Cloud's **Firebase**