**Devon Knight: Software Engineer Co-Op Internship Summer 2025**

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**EDUCATION**

**B.A.Sc. Software Engineering (Co-Op)** [**University of Ottawa**](https://www.uottawa.ca/en) *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**](https://www.uwo.ca/index.html) *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**](https://www.rbccm.com/en/insights/story.page?dcr=templatedata/article/insights/data/2023/04/rbc_leads_the_way_for_ai_innovation_in_finance) *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**](https://www.rbcroyalbank.com) *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**.
* Designedan **automated DevOps control panel** tracking **1,000’s** of developer commits and managing downtime.

**Software Developer (8 Month Co-Op)** [**Ciena**](https://www.ciena.com/) *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**](https://www.utosm.com/) *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**](https://publish.uwo.ca/~rdekoter/) *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 **3rd 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**](https://www.uottahack.ca/)**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***](https://2023.uottahack.ca/)and[***live-event site***](https://live.uottahack.ca/) using **Node/ReactJS**.
* Yielded an annual marketing impact of **44.8k views**, and **25** **Company Partners** with new team strategies.

**Co-Founder** [**VaporWare Games**](https://vapor-ware-site.vercel.app/) **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***](https://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***](https://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***](https://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**