

Devon Knight: Software Engineer Co-Op Internship Fall 2024

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*Hi, I'm Devon! I am a Software Engineering student with a **previous career in Medical Research**. I am open to any **Development** roles. I also have **interests in Graphics, Ai, Gaming, Health, Aerospace, Cyber-Security, & Full-Stack**.*

EDUCATION

B.A.Sc. Software Engineering (Co-Op) [University of Ottawa](#) [Ottawa, ON, Canada, 12/2026](#)
• **GPA: 3.9 / 4.0:** Digital Logic, Computer Architecture, Linear Algebra, Data Structures and Algorithms, Android Dev.
• **Repping Canada at Dragonboat Worlds Italy 2024, Class Rep, Sponsorship Manager, Deans Honor Roll.**
H.B.Sc. Medical Science GPA: 3.9 / 4.0 [Western University](#) [London, ON, Canada, 07/2019](#)

SKILLS

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

WORK EXPERIENCE

DevOps Engineer Co-Op Intern [Royal Bank of Canada](#) [Toronto, ON, Canada, 01/2024 – 04/2024](#)
• Contributed to **Canadian Technology History** with the seamless **48-hour acquisition** of **HSBC framework** to **RBC**.
• Reduced deployment time by **15 minutes** per developer by writing automation scripts in **Groovy** and **Shell** that set up security and **Gradle** builds such as **HTTP proxy**, **Jenkins**, and **Open-Shift Container Platform**.
• Implemented the latest **GitHub Actions** and **GitHub Runners** with **Google's Bazel Build Tool** to build **Docker Images** and run **Docker Containers** on a **Kubernetes Server**, reducing complexity for developers.
• Designed an automated **DevOps data** dashboard of our **CI/CD pipeline** with **IBM UCD**, **Shell**, and **Splunk**.

Software Developer Co-Op Intern [Ciena](#) [Kanata, ON, Canada, 05/2023 – 12/2023](#)
• Co-led an implementation of a **Backend NoSQL MongoDB** database feature across 47 microservices
• 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 automated tests**, reducing development time when running **Jenkins** builds by ensuring compliance to design by running tests in an impressive **0.10 seconds**.

Machine Learning Researcher [University of Toronto](#) [Toronto, ON, Canada, 06/2019 – 02/2022](#)
• Effectively compiled quantitative and qualitative **statistics** from **28 patients** using Microsoft **Excel** and **R-Studio**.
• Demonstrated that patient-Ai-doctor interaction has an **83% positive impact** on post-operative recovery.

Computational Genetics Researcher [Western University](#) [London, ON, Canada, 06/2018 – 05/2019](#)
• Predicted the cancer potential of 4 genes using **Linux**, **Python**, and **3D modelling**, to guide financial investment.
• Presented at **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

Co-Founder [Vaporware Games](#) [01/2024 – Present](#)
• Developed a captivating 2D horror survival game using the **Godot Game Engine** and **Sprite-work** in **Adobe Studio**.
• Crafted an immersive atmosphere and suspenseful storytelling elements within the Godot Engine's framework.
• Utilized **GDScript** and other scripting languages supported by Godot to implement game features.

Software Developer → Director of Sponsorship [uOttHack](#) [11/2022 – Present](#)
• Fostered a community of **850+ students** within **4 months** by leading company and university collaborations.
• 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.

Speaker & Panelist [Canadian Undergraduate Software Engineering Conference](#) [01/2024](#)
• **Keynote speaker** to **400+** professionals about the power of **domain knowledge in software engineering**.
• Led discussions on careers in **technology**, **academic research**, **machine learning**, navigating life as a scientist.

Software Engineering Canadian Rep [Dean of Engineering](#) [10/2023](#)
• Selected to **represent uOttawa** to facilitate a **cross-institutional** collaboration between **uOttHack** and **Tec de Monterrey** to host **800+ students** across the world becoming **one of the two Canadian international hackathons**.

PROJECTS

Co-Med [UofT Hacks 11](#) github.com/uOttHackUofT/Co.med
• An **LLM AI-assisted** hospital triage web-application built with **REST**, **Next.js**, and **Cohere's Large-Language Model**
• Utilized **supervised learning** to provide suggested diagnosis, prognosis, and triage level with ranked sources.

uOttApp [uOttHack Development Team](#) github.com/Devcon324/uOttApp
• 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**