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 Health-Tech Research**. I am open to any **Development roles**. I also have **interests in Graphics, Ai, Gaming, Health, Aerospace, Cyber-Sec, & 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, NoSQL, 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 platforms** 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.**

PROJECTS

Co-Med   **UofT Hacks 11**   *github.com/uOttaHackUofT/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.

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**

Dungeons and Dragons Buddy   **Devon Knight**   *github.com/Devcon324/DandD_Buddy*
- Play speed **increased by ~99.3%** by implementing a **search algorithm** that parses **149+ pages of textbook data.**
- Built by using **object-oriented design**, **Python, JSON, Selenium web-scraping,** and the **Discord.py API.**

LEADERSHIP

Software Developer → Director of Sponsorship   **uOttaHack**   **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.

International Experience Scholarship   **Dean of Engineering**   **10/2023**
- Selected to **represent uOttawa** to facilitate a **cross-institutional** collaboration between **uOttaHack** and **Tec de Monterrey** to host **800+ students** across the world becoming **one of the two Canadian international hackathons**.