**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, Embedded, Network, & Full-Stack.***

**EDUCATION**

**B.A.Sc. Software Engineering (Co-Op)** [**University of Ottawa**](https://www.uottawa.ca/en) *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**](https://www.uwo.ca/index.html) *London, ON, Canada,* **07/2019**

**SKILLS**

* **Proficient:** Python, C, Java, Docker, HTML, CSS, UML, Firebase, Splunk, Git, Linux, GitHub.
* **Experienced:** Unix, Bash, Shell, ReactJS, React 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**](https://www.rbcroyalbank.com) *Toronto, ON, Canada*, **01/2024 – Present**

* 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 Built Tool** to build **Docker Images** and run **Docker Containers** on a **Kubernetes Server**, reducing complexity for developers.
* Designed an automated **DevOps Research Assessment** dashboard of our pipeline that builds **12 Applications** using **IBM** **Urban Code Deploy**, **Shell**, and **Splunk** to enable tech-leads to manage large product deployments.

**Software Developer Co-Op Intern** [**Ciena**](https://www.ciena.com/) *Kanata, ON, Canada*, **05/2023 – 12/2023**

* Co-led an implementation of a **Backend** **NoSQL MongoDB** database feature across 47 microservices by leading **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**](https://www.utosm.com/) *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**](https://publish.uwo.ca/~rdekoter/) *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** **7 scientific publications** collectively achieving over **1,000+ downloads and 5+ citations.**

**PROJECTS**

**Co-Med UofT Hacks 11** [***github.com/uOttaHackUofT/Co.med***](https://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***](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**

**Dungeons and Dragons Buddy Devon Knight** [***github.com/Devcon324/DandD\_Buddy***](https://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** [**uOttaHack**](https://www.uottahack.ca/)**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***](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.

**Speaker & Panelist** [**Canadian Undergraduate Software Engineering Conference**](https://2024.cusec.net/) **01/2024**

* Presented as a **keynote speaker** to **400+** students and professionals, emphasizing the power of **non-technical domain knowledge in software engineering** with philosophies of success that translate into the tech field.
* Led discussions on the parallels between careers in technology and **academic research**, topics such as **machine learning** applications, navigating life as a scientist, and the transformative impact of research on critical thinking skills.

**International Experience Scholarship** [**Dean of Engineering**](https://www.linkedin.com/posts/faculty-of-engineering-uottawa_stem-stim-activity-7123763307320119297-E8MY?utm_source=share&utm_medium=member_desktop) **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**.