**Devon Knight: Software Engineer Co-Op Internship Fall 2024**

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**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.
* **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**

* **Proficient:** Python, C, Java, Docker, HTML, CSS, UML, Firebase, Splunk, Git, Linux, GitHub.
* **Experienced:** 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 Intern Royal Bank of Canada** *Toronto, ON, Canada*, **01/2024 – 04/2024**

* 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/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** so tech-leads easily manage large product deployments.

**Software Developer Intern Ciena** *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**, **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** and showed that AI chatbots have an **83% positive impact** on the user experience during post-operative recovery **within** **6 months**.

**Computational Genetics Researcher Western University** *London, ON, Canada*, **06/2018 – 05/2019**

* Predicted cancer potential of 4 genes using **Linux**, **Python,** and **3D modelling**, to guide financial investment.
* Presented at **4 Canadian 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 system 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 app 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 data.**
* Built by using **object-oriented design**, **Python, JSON, Selenium web-scraping,** and **Discord.py API.**

**LEADERSHIP**

**Developer → Director** **uOttaHack (Canada’s Capital Hackathon c.2018)****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 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** **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 for **Canada’s first ever** **international hackathon**.