

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

[devon.donald.knight@gmail.com](mailto:devon.donald.knight@gmail.com) | [\(647\) 920-3519](tel:(647)920-3519) | [linkedin.com/in/devonknight](https://www.linkedin.com/in/devonknight) | [github.com/Devcon324](https://github.com/Devcon324)

## 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 – 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/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 **3<sup>rd</sup> 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/uOttHackUofT/Co.med](https://github.com/uOttHackUofT/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.

**uOttApp** [uOttHack Development Team](#) [github.com/Devcon324/uOttApp](https://github.com/Devcon324/uOttApp)  
• 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** [uOttHack \(Canada's Capital Hackathon c.2018\)](#) *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](#) 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*  
• 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 **uOttHack** and **Tec de Monterrey** to host **800+ students** across the world becoming **one of the two Canadian international hackathons**.