# 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** 

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 London, ON, Canada, 07/2019 **Western University** 

**SKILLS** 

Proficient: Python, C, Java, Docker, Splunk, HTML, CSS, UML, Firebase, 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** 

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

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** 

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 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/uOttaHackUofT/Co.med

- An LLM Al-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

- 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 becoming one of the two Canadian international hackathons.