

# Devon Knight: Software Engineer Co-Op Internship Summer 2025

[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*  
• **CGPA: 3.95 / 4.00:** Data Structures and Algorithms, Android Dev, Digital Logic, Operating Systems, Linear Algebra.  
• **World Championship Athlete 2024, Class Rep, ENG Board of Directors, Funding Manager, Deans Honor Roll**  
**H.B.Sc. Medical Science CGPA: 3.92 / 4.00** Western University *London, ON, Canada*

## SKILLS

- **Most Used:** Python, Java, Docker, GPT, CrewAi, Front-End, React, Splunk, HTML/CSS, Agile, Git, Linux, GitHub.
- **Experienced:** C, Unix, Bash, Shell, ReactJS/Native, JavaScript, MongoDB, REST APIs, SQL, MySQL, REST, JSON.
- **Beginner:** C++, C#, Android, TypeScript, Assembly, Groovy, Jenkins, Maven, Gradle, Kubernetes, Node, NEXT, R.

## WORK EXPERIENCE

**ML Engineer (4 Month Co-Op)** RBC Generative Ai Lab *Toronto, ON, Canada, 09/2024 – 01/2025*  
• **Automated** investment reports in **24s** per stock showing a **99.994%** confidence in **LLM's** saving mean work hours.  
• **Built a full-stack address validator** saving **1,000's** of man-hours using **React, JS, Langchain** and **LlamaIndex**.  
• **Utilized vector databases** such as **Qdrant, ChromaDB, and Pinecone** for efficient data storage and retrieval.

**DevOps Engineer (4 Month Co-Op)** Royal Bank of Canada *Toronto, ON, Canada, 01/2024 – 05/2024*  
• **Contributed to Canadian Technology History** with the seamless **48-hour** acquisition of HSBC technology to RBC.  
• **Reduced Gradle build and deploy time** by **15%** with **Groovy** that operate HTTP proxies and Open-Shift Containers.  
• **Built 1 Prototype DevOps pipeline** with **GitHub Actions** and Runners, increasing efficiency across **54 Dev Teams**.  
• **Designed an automated DevOps control panel** tracking **1,000's** of developer commits and managing downtime.

**Software Developer (8 Month Co-Op)** Ciena *Ottawa, ON, Canada, 05/2023 – 12/2023*  
• **Served Google, Amazon, Twitch, Meta, and Microsoft** clients with an upgrade to **47 server microservices**.  
• **Co-led a back-end NoSQL MongoDB** database testing feature catching **12+ faults** and prevented major incidents.  
• **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 test suites** that runs in an impressive **0.10 seconds**.

**Machine Learning Research Assistant** University of Toronto *Toronto, ON, Canada, 05/2019 – 09/2022*  
• **Conducted data-analysis** from **28 patients** using **Python, Microsoft Excel** and **R-Studio** with weekly data-reports.  
• **Co-led a clinical study** showing **83% decrease** in surgery complications with patient-Ai-doctor interaction.  
• **Co-authored a peer-reviewed publication** on the use of ML in post-operative recovery, **cited 25+ times** in the field.

**Computational Genetics Researcher** Western University *London, ON, Canada, 06/2018 – 05/2019*  
• **Identified 4 Cancer-Causing genes** using **Linux, Python, and 3D modelling**, **saving over \$8,000** of lab materials.  
• **Presented at 4 Canadian medical research conferences**, receiving **3<sup>rd</sup> 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**.

## LEADERSHIP

**Co-Founder** VaporWare Games *01/2024 – Present*  
• Developed a captivating 2D horror survival game using the **Godot Game Engine** and **Sprite-work** in **Adobe Studio**.  
• Crafted an immersive atmosphere and suspenseful elements by using **10 years** of D&D storytelling experience.  
• Utilized **GDScript** and **C#** to implement game features in the Godot Game Engine to create a prototype.

**Director & Software Developer** uOttHack *11/2022 – Present*  
• **Represented Canada** and built an international collaboration between **uOttHack** and **Tec de Monterrey** to bring accessible resources to **800+ students across the world** becoming **the only Canadian international hackathon**.  
• 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.

**Keynote Speaker** Canadian Software Engineering Conference *01/2024*  
• **Keynote speaker** to **400+** professionals about the power of **medical domain knowledge in software engineering**.  
• Led discussions on careers in **technology, academic research, machine learning**, navigating life as a scientist.

## PROJECTS

**Co-Med** UofT Hacks 11 *[github.com/uOttHackUofT/Co.med](https://github.com/uOttHackUofT/Co.med)*  
• A **full-stack LLM AI-assisted** hospital triage app built with **ReactJS, REST, Next.js**, and **Cohere's LLM Gen Ai**  
• 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 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**