

Devon Knight: Software Engineer Co-Op Internship Summer 2025

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EDUCATION

B.A.Sc. Software Engineering (Co-Op) University of Ottawa *Ottawa, ON, Canada, 12/2026*
• **CGPA: 4.00 / 4.00:** Digital Logic, Operating Systems, Linear Algebra, Data Structures and Algorithms, Android Dev.
• **Class Rep, Board of Directors, Funding Manager, Deans Honor Roll, World Championship Athlete 2024**
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 using **Generative LLM AI Agents** that parse reports and the web.
• **Built a validator of client data** saving **1,000's** of man-hours using **Machine Learning, 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 framework 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*
• **Upgraded 47 microservices** used in servers with clients such as **Google, Amazon, Twitch, Meta, and Microsoft**.
• **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 **3rd 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*
• 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.

uOttApp uOttHack Development Team *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**