Devon Knight: Software Engineer

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EDUCATION

B.A.Sc. Software Engineering (Co-Op)   <u>University of Ottawa</u>   *Ottawa, ON, Canada,* **12/2026**
- **CGPA: 3.95 / 4.00**: Data Structures and Algorithms, Android Dev, Digital Logic, Operating Systems, Linear Algebra.
- **Leadership:** World Dragonboat Athlete 2024, Class Rep, Board of Directors, Funding Manager, Deans Honor Roll

SKILLS

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

WORK EXPERIENCE (5 of 15)

Full Stack Software Engineer (4 Month Co-Op)   <u>Intuit</u>   *Toronto, ON, Canada*, **05/2025 – Present**
- Developed the TurboTax product recommendation flow, boosting <u>**$278M, +(9%) revenue**</u>, with **multivariate testing**.
- Designed new **A/B Test flows** using **TypeScript, React, Kotlin, Java,** and **Player UI** (Intuits open-source tech stack)
- Led the **Credit Karma to TurboTax** customer flow, introducing **automated testing** with **Gen AI** for quick adaption.

Machine Learning Engineer (4 Month Co-Op)   <u>RBC Gen AI Lab</u>   *Toronto, ON, Canada*, **09/2024 – 01/2025**
- **Contributed to 3 LLM POCs** by gathering user stories and balancing development priorities with business value.
- Built an **LLM-assisted** case generator, enabling instant client resolution, **reducing case resolution time by ~70%.**
- Led a **LLM project** that cleans and validates **500K** addresses with **99.99%** confidence, saving **1000's** of manhours.
- Utilized **vector databases** (Qdrant, ChromaDB, Pinecone) to optimize storage and retrieval, improving efficiency.

DevOps Engineer (4 Month Co-Op)   <u>Royal Bank of Canada</u>   *Toronto, ON, Canada*, **01/2024 – 05/2024**
- Contributed to **Canadian Technology History** with a CI/CD pipeline enabling the **48hr** acquisition of HSBC 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**.
- Led a **DevOps project** tracking **1,000's** of developer commits, enhancing productivity and minimizing disruptions.

Software Developer (8 Month Co-Op)   <u>Ciena</u>   *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 **44+ features** 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   <u>University of Toronto</u>   *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** that used **Felix AI** to address patient concerns showing **83% improved patient outcomes**.
- **Co-authored a peer-reviewed publication** on ML application in post-operative recovery, **cited 25+ times** in the field.

LEADERSHIP (2 of 13)

Director & Software Developer   <u>uOttaHack</u>   **11/2022 – Present**
- **Led HKUST Hong Kong** and **Tec de Monterrey Mexico** in an **international partnership** with **uOttawa Canada,**.
- Established uOttaHack as the **only Canadian hackathon** with global participation, benefiting **1,007+** professionals.
- Coordinated an **800+ student hackathon,** developed an *official site* and *live-event site* using **Node/ReactJS**.
- **Enhanced marketing** generating **44.8k views** and **25 sponsors**, expanding the hackathon's industry network.

Co-Founder   <u>VaporWare Games</u>   **01/2024 – Present**
- Developing **2D games** using **Godot** Game Engine and **Aseprite**, for an immersive product for **content creators**.
- **Collaborated with art designers** to build gameplay mechanics using **C#**, creating a working game prototype.

PROJECTS (3 of 22)

The NeverEnding Story   <u>AI Content Creation</u>   *github.com/Devcon324/NeverEnding-Story*
- Developed an infinite **D&D game** story with **Meta Llama 3.2 90B** generating a chapter every hour using **Linux bash**.
- Designed an algorithm in **Python** to read files quickly and feed the story to **AI** to write the proceeding chapter.
- **Designed a Python algorithm** to feed data to AI models, enhancing AI-generated creativity and seamless stories.

Co-Med   <u>AI Triage in the ER</u>   *github.com/uOttaHackUofT/Co.med*
- A **full-stack AI-assisted hospital triage app** using Cohere's LLM, enabling shorter triage and emergency wait times.
- Utilized **supervised learning** to suggest diagnoses and triage levels, offering sources to support medical decisions.

uOttaApp   <u>Event Data-Tracking</u>   *github.com/Devcon324/uOttaApp*
- Developed an event tracker mobile application that **tracked 856+ client** attendance, food, and raffle tickets.
- Built as a **full-stack mobile app** with **React Native, HTML, CSS, JavaScript** and Google Cloud's **Firebase**