**Devon Knight**

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**Education**

[**University of Ottawa**](https://www.uottawa.ca/en)– *B.A.Sc. Software Engineering (Co-Op)* *Graduating 2026*

**CGPA:** **92.5%** | UI/UX Design, Databases, Data Structures & Algorithms, Operating Systems, Software Architecture

**Societies:** 2024 Dragonboat World Athlete, 7 x Scholarships, SWE Class Rep, Engineering Sponsorship Director

**Skills**

* **Proficient:** Python, Agentic AI, FastAPI, OpenAI API, Kubernetes, Git, UNIX/Linux OS, ReactJS, NoSQL, NodeJS
* **Experienced:** Bash, Shell, JavaScript, HTML, CSS, TypeScript, C/C++/C#, MongoDB, SQLite, Kubernetes, Docker
* **Familiar:** SageMaker, Huggingface, GitHub Action/Runner, Jenkins, Maven/Gradle, AWS, Pytorch, Splunk, Firebase

**Professional Experience**

[**Royal Bank of Canada**](https://www.rbccm.com/en/insights/story.page?dcr=templatedata/article/insights/data/2023/04/rbc_leads_the_way_for_ai_innovation_in_finance) – *Machine Learning Engineer Intern* *Toronto, ON, Canada*,*09/2024 – 12/2024*

* Created **3 Gen AI Products** using **Anthropic, Meta, OpenAI API endpoints** for LLM Appsin an **Agile/Scrum** team
* Utilized **LLM’s** to build a **500k client** Geolocator with **91.96% accuracy**, saving **9 years** of labor using **A/B tests**
* Developed a financial analyst app with **Python, FastAPI, CrewAI (Llama 70B), Vite,** & **React** to enhance workflows
* Implemented a **RegEx Algorithm** & analyzed **HereAPI, Google API’s** & **LLM’s** leading to a **+37%** in precision
* Optimized storage & retrieval of AI models on using **SageMaker**, **Qdrant**, **ChromaDB**, & **Pinecone**

[**Royal Bank of C**](https://www.rbcroyalbank.com)**anada** –*DevOps Engineer Intern*  *Toronto, ON, Canada*,  *01/2024 – 04/2024*

* Developed a **key** **feature** & **unit test** to reduce **caching** libraries to improve developer build times using **TypeScript**
* Achieved a **15% faster** build & deploy time by automating manual build tasks with **Gradle**, **Groovy**, & **Kubernetes**
* Deployed **GitHub Runners** using **Docker** containers on **Kubernetes** & **OpenShift** for improved scalability
* Spearheaded a **DevOps Dashboard** using **Splunk** & **Elasticsearch** that tracked **400+ engineers** across **53+ teams**
* Built & managed a new **CI/CD pipeline** to build & deploy apps with **Gradle** using **YAML** & **GitHub Actions**

[**Ciena**](https://www.ciena.com/)–*Software Developer Intern* *Ottawa, ON, Canada*,  *05/2023 – 12/2023*

* Served **Google, Amazon, Twitch, Meta,** & **Microsoft** clients in a **server** upgrade across **47 microservices**.
* Built **17** tests for **Database Migrations** with **Python, PyTest**, & **MongoDB** catching **12+** errors in **100 milliseconds**
* Developed **34+ Features** across **21 Bitbucket repositories** using **C, Python, JSON, UNIX/Linux, Bash,** & **Git**
* Optimized server networks in **C/C++** by resolving **3 memory leaks,** **Transceiver profiles**, **Remote Procedure Calls**

[**University of Toronto**](https://www.utosm.com/) – *Machine Learning Research Assistant* *Toronto, ON, Canada***,** *05/2019 – 09/2022*

* Conducted data-analysis from **28 patients** using **Python**, **Microsoft Excel** & **R-Studio** with weekly data-reports
* Co-led a clinical study that used **Felix AI ML** to advise patients 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**

[**uOttaHack**](https://www.uottahack.ca/)– *Director 06/2022 – Present*

* **Partnered with Groq, Survey Monkey, Amazon & more** and led **13** SWE events for an **800+** engineer community.
* Managed **30+** organizers to host a Hackathon of **800+ students, 40+** **repositories 30 mentors & 25+ companies**
* Developed the [***Official site***](https://2023.uottahack.ca/)*,* [***LiveSite***](https://live.uottahack.ca/)& [***uOttaApp***](https://github.com/Devcon324/uOttaApp), while maintaining over 20 repositories (webapps, API, CI/CD)

[**uOttaHack**](https://www.uottahack.ca/)– *Advisor 05/2023 – Present*

* Collaborated **Canada, Hong Kong** & **Mexico** STEM universities by spearheading an [***International Partnership***](https://www.linkedin.com/posts/devonknight_thats-a-wrap-for-uottahacks-6th-annual-activity-7172335967213731840-sDpo?utm_source=share&utm_medium=member_desktop)
* Led as the primary liaison for executives which increased company partnerships by **77.8%** &fundsby **36.3%**
* Raised over **$68,000+** yearly & grew the hackathons marketing to **2.4K followers** & **44.8k views**

[**VaporWare Games**](https://vapor-ware-site.vercel.app/)– *Co-Founder* *01/2024 – Present*

* Developed a **2D** horror game using **Godot Engine, GDScript, C#, Python, & Aseprite** to implement features
* Collaborated with art designers to craft immersive atmospheres & storytelling elements within the Godot Engine

**Projects**

**The NeverEnding Story** – *Groq GenAI Lore Building**github.com/Devcon324/NeverEnding-Story*

* Developed an infinite D&D game story with **Groq’s** **Meta Llama 3.2 90B** writing a post every hour using Linux bash.
* Designed an algorithm in Python to **read files quickly** and **feed the story to Groq** to write the proceeding chapter

**Co-Medical** –*University of Toronto Hacks 11* [*github.com/uOttaHackUofT/Co.med*](https://github.com/uOttaHackUofT/Co.med)

* Built an **LLM AI hospital triage web app** using **Python, Cohere LLM,** & **Next.JS** to streamline emergency rooms
* Utilized **LLM Classify** as a **supervised learning** analogue toprovide diagnosis, prognosis, & triage with citations

**uOttaHack Websites/Apps** – *uOttaHack Main Websites* *(2023/2024/2025)*  [2023.ca](https://2023.uottahack.ca/) / [2024.ca](https://2024.uottahack.ca/) / [2025.ca](https://2025.uottahack.ca/)

* Managed **48** repositories across **33** developers using **React & Embeds** in order to maximize site efficiency & appeal
* Utilized **Next.js** to implement **Dynamic Data Fetching** for a **backend** leading to expeditious **release/update** times
* Maintaining & updating onsite sponsors & advertisement that led to **$68,000+ of funding** & & **200+ daily visits**