**Devon Knight**

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**Education**

[**University of Ottawa**](https://www.uottawa.ca/en)– *B.A.Sc. Software Engineering (Co-Op)* – **GPA: 92.5%** *Graduating 2026*

Coursework: Databases, Data Structures & Algorithms, Digital Systems Design, Operating Systems, PC/CPU Architecture

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

**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 Products** using **OpenAI, Anthropic, Meta Large Language Models** in an **Agile/Scrum** team
* Built a **Geolocator** for **500k clients** with **91.96% accuracy**, saving **17,000+ days** of labor using **Python** & **FastAPI**
* 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 using **vector databases**, **Qdrant**, **ChromaDB**, & **Pinecone**

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

* Developed a **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*

* Led a production **server** upgrade across **47 microservices** for **Google, Amazon, Twitch, Meta,** & **Microsoft** clients
* 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

**Skills**

* **Proficient:** Python, Agentic AI, FastAPI, Java, Git, UNIX/Linux OS, ReactJS, Kubernetes, NoSQL, NodeJS, NextJS
* **Experienced:** Bash, Shell, ReactNative, JavaScript, TypeScript, C/C++/C#, MongoDB, SQLite, Kubernetes, Docker
* **Familiar:** Android, GitHub Actions, Runners, Jenkins, Maven, Gradle, R, AWS, Spring Boot, Splunk, Firebase

**Leadership**

[**uOttaHack**](https://www.uottahack.ca/)– *Director 06/2022 – 05/2023*

* 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)
* Led **13** community events for **800+** students, with reps from **Apple, Microsoft, Google, Solace, & Trend Micro**

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

* United **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**

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

* Built an **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

**uOttaApp** –*Smartphone Event Tracker*  [*github.com/Devcon324/uOttaApp*](https://github.com/Devcon324/uOttaApp)

* **MERN** Stack Mobile WebApp used by **2000+ hackers** at our events, leveraging **Next.js, Firebase & Expo**
* Managing **700+ users** at once, tracking **event statistics** on a **user-friendly** UI/UX enhanced by **SCSS/CSS**

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

* Using various **React libraries** & **Embeds** in order to maximize site efficiency & appeal
* Using **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**