**Devon Knight**

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**EDUCATION**

**B.A.Sc. Software Engineering (Mandatory Co-Op, Looking for Fall 2024)** *Ottawa, ON, Canada*

*The University of Ottawa, Current GPA: 3.9 / 4.0* September *2022 – August 2026*

* **Coursework**: Digital Logic, Computer Architecture, Linear Algebra, Data Structures and Algorithms, Mobile Apps.
* **Societies:** uOttaHack, Engineering Student Society, Carleton Dragonboat Team, Deans Honor Roll.

**H.B.Sc. Biology, Major in Microbiology and Immunology** *London, ON, Canada*

*The University of Western Ontario, In-major GPA: 3.9 / 4.0* *Conferred July 2019*

**SKILLS & INTERESTS**

**Languages**: Python, C, C#, R, Java, HTML, CSS, JavaScript, TypeScript; Assembly; UML.

**Technologies**: Git, Jenkins, Linux, Unix, Bash, ReactJS, React Native, MongoDB, SQLite, SQL, NoSQL, REST, JSON.

**WORK EXPERIENCE**

**DevOps Engineer Intern** ***Toronto, ON, Canada***

*Royal Bank of Canada, Real-Time Payments Team* *January 2024 – April 2024*

* Optimizing the deployment process for RBC software engineers through an automated **CI/CD pipeline** through the use of **Jenkins, Java, Scala, Groovy, Gradle,** and **Maven**, for shorter build times and expedite feature releases.
* Coordinating across **12 different organization repositories** to integrate our novel pipeline and collecting metrics to later conduct **data-processing** and identify sources of development lag phases that can be expedited.

**Software Developer Intern** ***Kanata, ON, Canada***

*Ciena* *May 2023 – December 2024*

* Co-led an implementation of a Backend, NoSQL MongoDB database feature across 47 microservices by efficiently handling **24+ JIRA’s** across **18 repositories** using DevOps tools, Confluence, Unix, Linux, Bitbucket, and Git.
* Implemented a novel Python **unit test framework** with 17 automated tests, reducing development time when running Jenkins builds by ensuring compliance to design by running tests in an impressive **0.10 seconds**.
* Collaborated with an international team of 15 software engineers in debugging and enhancing data communication infrastructure in **Python** and **C**, resulting in **improved product development** and customer satisfaction.

**Machine Learning Clinical Research Assistant** ***Toronto, ON, Canada***

*The University of Toronto,* *June/2019 – February 2022*

* Quantified how artificial intelligence enhanced surgical recovery through **7 statistical reports** built with Excel.
* Effectively compiled quantitative and qualitative statistical data from 28 patients and showed that AI chatbots have an **83% positive impact** on the user experience during post-operative recovery within 6 months.

**Computational Genetics Research Student** ***London, ON, Canada***

*The University of Western Ontario* *July 2018 – May 2019*

* Predicted cancer potential of 4 genes using Linux, Python and 3D modelling, which guided funding allocation.
* Presented at 4 Canadian conferences, receiving **3rd place out of 26** national research students in Ontario-Quebec.
* **Co-authored** **2 peer-reviewed research papers** collectively achieving over **1000 downloads and 5 citations.**

**LEADERSHIP & PROJECTS**

**Director & Software Developer,** *uOttaHack (Canada’s Capital Hackathon for 6 years) September 2022 – Present*

* **uOttaApp:** Built with React Native Frontend, and Firebase Backend to **track 600 attendees’** data and workshops.
* Collaborated with 18 organizers to build a new webpage, and event tracker web app, using NodeJS, and ReactJS.
* Accelerated our dev strategies ([2023 site](https://2023.uottahack.ca/) & [live site](https://uottahack3-live.netlify.app/)), marketing (44.8k views), and sponsorship (raised $54K).
* **Director of Software Community:** established international **tech diversity and inclusion** from Mexico and Chile.

**Speaker & Panelist,** *Canadian Undergraduate Software Engineering Conference*January 2024

* ***Software Engineering NewGame+:*** Presented as a keynote speaker to discuss how to approach software engineering coming from another discipline of medical science and philosophies of success that translate to tech.
* ***Academic Research Panelist:*** Selected as a panelist to discuss the tech and health-tech research with discussion about **machine learning**, life as a **published scientist**, how research expanded my **critical thinking**.

**International Experience Scholarship,** *Awarded by the Dean of Engineering* October *2023*

* Traveled to Tec de Monterrey in Monterrey Mexico to represent the University of Ottawa diversity partner efforts.
* Shared my experience leading the university’s hackathon at the World Engineering Education Forum.
* Facilitated cross-institutional collaboration to host **800+ students** across the world for an **international event**.

**Dungeons and Dragons Buddy** [github.com/Devcon324/DandD\_Buddy](https://github.com/Devcon324/DandD_Buddy)

* Scripting app using object-oriented design, Python, JSON, Selenium web-scraping, and the Discord.py API.
* Implemented a **search algorithm** that parses **over 149 pages of data** to provide an efficient player experience.

**Harvard University CS50 Intro to Computer Science** [github.com/Devcon324/Harvard\_CS50](https://github.com/Devcon324/Harvard_CS50)

* Developed **21 projects** solving real-world problems with **C, Python, SQL, HTML, CSS, and JavaScript.**
* Introduced to algorithms and data structures, databases, and web applications through a 10-week course.