

## Saliou Diop

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### Work experience

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#### Data Analyst intern

May 2021 - August 2021

Greystone Energy Inc, Moncton

- Worked with the operation manager to create dashboard in Python and Power Bi to evaluate employees performance using the company large Oracle database
- Built reports for the operation manager to understand the data analysis steps, enabling him to take important decisions based on performance.

#### C++ programming Tutor

Université de Moncton, Moncton

Sep 2020 - April 2021

- Worked closely with the professor and a few other computer science students to assist junior and sophomore students with C++ programming.
- Successfully, analyzed and debugged code written by various students and clarified the new concepts introduced in the course.

#### Artificial intelligence research assistant, Moncton

Jan 2020 – August 2020

Perception, Robotics and intelligent Machines (PRIME), U Moncton

- Worked with Professor Akhloufi and MSc students to create a simulation tool for forest fires to help prevent propagation.
- Produced a 3D photorealistic model that can predict effectively fire propagation from parameters such as wind speed, humidity etc....
- Used the Unity game engine, C# programming language and state of the art deep learning techniques to build the model.
- Also assisted graduate students with the development of data pipelines using Python

### Projects (on my GitHub)

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#### Detection of Malware Applications in Android Smartphones

- I developed a model that can detect malwares on android smartphones using Java and deep learning. Achieved an accuracy of 97%.

#### Covid Vaccines Tracker (Open source project)

- Fixed many issues related to the front-end side of the project.

### Volunteering

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#### Computer Science Student Council Treasurer

Sept 2020- Sept 2021

- Process and record all financial transactions on behalf of the council
- Participate in all executive and council discussions and voting

### Technical Skills

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- **Programming Languages:** C++, Javascript, TypeScript, PHP, HTML/CSS, SQL, MYSQL, PL/SQL
- **Frameworks:** Bootstrap5, Tailwind CSS, React
- **Tools:** Visual Studio Code, Git, Firebase, Power BI, Jest testing library
- **Language:** French - English

### Education

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Université de Moncton

2018 - Present

B.S. in Applied Computer Science Co-op