

# Olayiwola Bakare

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🌐 [Olayiwola1](https://github.com/Olayiwola1)

## Work Experience

### PagerDuty

May 2020 – August 2020

#### Software Engineer Intern – Core Product Pipeline Team

Toronto, ON

- Built an application on one of the company's services that consumes updated account messages from Kafka. The messages will be used for better internal processing and routing of events.
- Created a backfill process to seamlessly populate an s3 bucket with the company's account data. This process supports better internal processing and provides engineers and other services with easy access to the data if needed.
- Updated an entire codebase to a new style release of the Elixir language. This new release provides code preloading and more autonomy for configurations and customizations.

### McMaster University

September 2019 – April 2020

#### Teaching Assistant

Hamilton, ON

- Selected as TA for a brand-new engineering design course at McMaster University (**ENG 1P13**) – Fall 2020
- Assisted first-year engineering students with acquiring a better understanding of core coding principles and algorithms during Python programming labs. **Engineering Computation (ENG 1D04)** – Winter 2020
- Worked closely with the professor and other teaching assistants to assist over **300+** students throughout the process of completing their projects. Developed communication and time management skills. **Engineering Profession & Practice (ENG 1P03)** – Fall 2019

### Sun Life Financial

May 2019 – August 2019

#### On-Site Support Co-op – Support Team

Toronto, ON

- Applied critical thinking skills in **troubleshooting** desktop (**software** and hardware) problems and provided consultations and technical solutions to clients on computer issues.
- Configured Test Lab PCs and scheduled deployments of computer hardware to internal clients using ServiceNow. Successfully resolved over **100+** tickets.

### Mathstronauts

October 2018 – April 2020

#### Program Instructor

Hamilton, ON

- Instructed an afterschool STEM program. Introduced **40+** students to the art of programming, and circuitry using **Arduino** and **C** and taught them about **3D** design using **FreeCAD**.
- Oversaw students build a remote-controlled robotic arm by applying the knowledge they have gained.

## Projects

### Land\_Fix | [github.com/Olayiwola1/NSBE\\_Hacks](https://github.com/Olayiwola1/NSBE_Hacks)

NSBEHacks UofT

- Developed a blockchain-based application to deal with the prominent corruption in property ownership in Africa. The application provides a digital and immutable record of all transactions.
- Provided a visual representation of users' allocated territory using **HTML**, **CSS**, **JavaScript**, and **Google Maps API**.

### CPU L8R | [github.com/Olayiwola1/CPUL8R](https://github.com/Olayiwola1/CPUL8R)

McMaster University

- Collaborated in a team to create a pacemaker prototype and implement its modes and functionalities using **MATLAB (Simulink)** and the **FRDM-K64F** microcontroller.
- Created the graphical user interface using **Tkinter** and **Python**. Implemented serial communication using **pySerial** to transfer information between our hardware and software.

## Skills

**Languages & Frameworks:** Python, Scala, Elixir, Java, Ruby, JavaScript, C, ReactJS, NodeJS, SQL, MATLAB

**Tools:** Linux, Git, Kafka, Docker, Bootstrap, Datadog

## Education

### McMaster University

Hamilton, ON

Computer Engineering & Management (B.Eng.Mgt.) | cGPA – 3.63/ 4.00

2017 – 2022 (Expected)

**Awards:** Dean's Honour List – (2018, 2019, 2020), The McMaster Honour Award, L3 – 2017, Ontario Scholar – 2017

**Activities:** Treasurer – National Society of Black Engineers (McMaster Chapter)

**Relevant Courses:** Data Structures & Algorithms, Principles of Programming, Software Development