

# KAREEM EL ASSAD

## Software Developer

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## PROJECTS

### Basil

<https://git.io/JvCSO> | [React](#), [JavaScript](#), [Firebase](#), [React-Router](#)

- Created a **React-based full-stack web application** that used multiple nutrition **APIs** to help users prepare healthy meals with the ingredients they already had.
- Developed a simple **algorithm** to calculate the healthiness of a certain meal and displayed it to the user in an intuitive way.

### Empower - Hack Western

[git.io/JeyjL](https://git.io/JeyjL) | [Python Flask](#), [Azure](#), [CSS](#), [HTML](#), [MongoDB](#)

- Created a **full-stack web application** that allowed users to post ongoing and upcoming protests to the platform where the information would be stored on a **MongoDB database**.
- That data was placed as a pin on a map using **Google Maps API**. It allowed users to quickly find and identify rallies taking place in their area.

### Assignment Sorter - cuHacking

[git.io/Jeaib](https://git.io/Jeaib) | [Python](#), [Tkinter Library](#)

- Created an Assignment Sorter using **Python** that was capable of taking in various files and keywords from the user and then organizing them in different folders at a given directory.
- The program prompted the user with a **Graphical User Interface (GUI)** which allowed them to input several keywords. Those keywords are then used to **parse** and **sort** a set of files assigned by the user.

## WORK EXPERIENCE

### Technical Inspector

[Measurement Canada](#)

September 2019 – January 2020

Ottawa, Ontario

- Examined the electrical lab with the Lab Manager to ensure that it met safety standards.
- Identified workplace hazards in the Voltage Transformer Test Unit and worked alongside the engineers to find a practical yet effective solution.
- Researched Canadian Standard Work and Health Safety regulations to ensure the database was up to date.

## EDUCATION

### Bachelor of Engineering, Computer Systems Engineering

[Carleton University](#)

Expected Graduation April 2023

Available for 4 months beginning April 2020

## SUMMARY

- Independent and organized Computer Engineering student with a passion for open-source development and public service.
- Gained strong communication and leadership skills through volunteering in my community during my personal time.

## COURSEWORK

- Object Oriented Software Development [Java, C++] (SYSC2004, ECOR1606)
- Imperative Programming [C, Golang] (SYSC2006)
- Algorithms and Data Structures [Java] (SYSC2100)
- Digital Systems (SYSC2310)
- Computer Organization and Architecture (SYSC2320)

## VOLUNTEERING

- Web Developer (IEEE Ottawa Section) [2019-2020]
- External Director (IEEE Carleton) [2019-2020]
- Logistics Lead (IEEE Student Professional Awareness Conference) [2019-2020]
- Eng-Frosh Facil [2019]

## SKILLS

### Programming

[C](#), [C++](#), [Java](#), [Javascript](#), [Python](#), [Golang](#), [Shell](#), [Racket](#)

### Web Technologies

[React](#), [JavaScript](#), [Node.js](#), [Express.js](#), [REST APIs](#), [Firebase](#), [HTML](#), [CSS](#), [SASS](#)

### Development

[MongoDB](#), [SQL](#), [Linux](#), [Agile](#), [Git](#), [Embedded Systems](#), [Automated Testing](#)