

KAREEM EL ASSAD

Software Engineer

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WORK EXPERIENCE

Lead Software Engineering Intern

Bell Canada

September 2020 – April 2021

Remote

- Designed, developed, and implemented a **REST API** to automate the testing of Polycom devices.
- Developed **critical features** with an **Agile** team for new product releases and ensured all feature requirements were met.
- Refactored and integrated **object oriented principles** into the new code base to decrease technical debt.
- Leveraged the organization's design system and **code reviews** to produce **cleaner style code**.

Carleton Campus Ambassador

Ciena

September 2020 – January 2021

Ottawa, Ontario

- Planned multiple networking events between Ciena and different Engineering societies.
- Helped Ciena advertise and reach a large number of students which helped boost their hiring of local talent.
- Improved Ciena's image with Carleton students and faculty.

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.

PROJECTS

Sudoku.com Online Puzzle Solver

<https://git.io/Jv7xV> | Python, Selenium Library

- Created a **Python application** that used the **backtracking algorithm** to solve any given Sudoku board.
- The application used the **Selenium Web-driver** to interface with Sudoku.com. It parses the randomly generated puzzle, solves it locally, then inputs it on Sudoku.com.

Basil - A food app for students

<https://git.io/JvCSO> | JavaScript, React, Firebase, React-Router, REST

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

SUMMARY

- Independent and organized Engineering student with a passion for software development and public service.
- Competent core development skills (**Python, JavaScript, Java**)
- Strong background in mathematics.

EDUCATION

Software Engineering

Carleton University

Expected Graduation Spring 2022

Available for 4 months beginning April 2021

COURSEWORK

- Algorithms and Data Structures** (Achieved: A+)
- Computer Organization and Architecture** (Achieved: A+)
- Object Oriented Software Development in Java** (Achieved: A)
- Imperative Programming** (Achieved: A)

VOLUNTEERING

- Event Lead** (IEEE Student Professional Awareness Conference) [2020-Current]
- Officer** (IEEE Carleton) [2020-Current]
- Web Developer** (IEEE Ottawa Section) [2019-2020]
- External Director** (IEEE Carleton) [2019-2020]

SKILLS

Programming

Python, TypeScript, JavaScript, Node.js, Java, C, C++, Golang

Development

React, Express.js, REST APIs, Firebase, HTML, CSS, SASS, Git, AWS, MongoDB, Docker, Linux, Agile, Continuous Integration