

# YOUSSEF ZAYED

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## work

### Software Engineer Intern - Nokia

- \* Contributed to the networking **product diagnostics** team at Nokia by improving the team's **pipeline**.
- \* Transformed legacy **Perl scripts** used to convert VHDL code by redesigning them in **Python** to **improve scalability** in the **product creation process**.
- \* Leveraged **TCL code** on a remote **low-level Linux environment** to locate problem areas and eliminate **bugs**.
- \* **Optimized** inventory tracking by displaying an updated view of inventory through the use of **Bash** scripts and **Jenkins** for a team of 9 engineers to receive via automated email **improving overall efficacy**.

07/2018 - 08/2018  
Ottawa, ON.

### Full Stack and Data Engineering Mentor - Udacity

- \* Explained and expanded upon different **Full Stack and Data Engineering** concepts covered in Udacity's **nanodegree** through personalized meetings
- \* Established a **personal connection** with 50 students at a time, encouraging and supplementing and **accelerating** their learning
- \* **Dissected complex concepts** such as the fundamentals of **data warehouse** and **distributed computing** improving the student's understanding
- \* Created and explained projects utilizing technologies such as **Amazon aws**, **spark** and **javascript** in order for them to create them seamlessly.

Since 4/2019  
Ottawa, ON.

## community

### Tetra - supporting people with disabilities

- \* Partnered with the Tetra organization and a local **children's' hospital** to help children with disabilities **overcome** some of the **physical obstacles**
- \* Worked to develop a more **accessible** sport for those with severe disabilities to allow them to play with their peers and build a sense of **teamwork**
- \* **Prototyped** a device to attach to an electric wheelchair to show as a proof of concept to gather funding to continue the project

Since 9/2018  
Ottawa, ON.

### Mentor to High School First Robotics Team

Since 2020

### Chairman and founder of First Robotics Competition Team

2018-2019

## education

### Bachelor of Computer Science - Carleton University

Concentration in **Algorithms**. **CGPA 11.50/12.0** (A+).

09/2019 - 04/2023  
Ottawa, ON.

### Full-Stack web developer Nanodegree - Udacity

- \* Learned the fundamentals of frontend and backend web development and developed projects to apply skills learned
- \* Built a **dynamic** software application **backend** systems using the **Python** programming language and **Flask** application framework.
- \* Configured and **deployed websites** to the **cloud** using **Amazon AWS**

03/2018-10/2018

## languages

Python

SQL

Java

git

Perl

TCL

Spark

HTML

CSS

javascript

Bash

C++

Hadoop

## skills

data structures

object-oriented software design

version control

web development

data engineering

Pandas / Numpy

robotics

amazon aws

Django

Jenkins

CUDA

## interests

Data engineering

backend

database

Big Data

Machine learning