YOUSSEF ZAYED

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work

Software Engineer Intern - Nokia
07/2018 - 08/2018
Ottawa, ON.

* 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.**

Full Stack and Data Engineering Mentor - Udacity
Since 4/2019
Ottawa, ON.

* 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.

community

Tetra - supporting people with disabilities
Since 9/2018
Ottawa, ON.

* 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

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
09/2019 - 04/2023
Ottawa, ON.

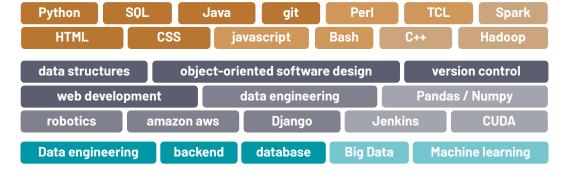Concentration in **Algorithms**. **CGPA 11.50/12.0** (A+).

Full-Stack web developer Nanodegree - Udacity
03/2018-10/2018

* 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**

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 |