

# YOUSSEF ZAYED

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## EDUCATION

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### Carleton University

BS Computer Science | Dean's List | Minor in Entrepreneurship | GPA: 4.0

Ottawa, CA

Sept. 2019 – Sept. 2023

## SKILLS

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Python | Javascript | C# | C++ | C | HTML/CSS | Java | SQL | VueJs | NodeJs | React |

## EXPERIENCE

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### Microsoft

Vancouver, CA (Remote)

Software Engineer Intern

May. 2021 – Aug. 2021

- Built an API for MS Teams meetings that exposes core functions to interface with external software and devices.
- Developed a **WebSocket** API using **JavaScript** and **TypeScript**, allowing for integration with new hardware partners.
- Designed the architecture and implemented a hardware plugin to connect over **WebSocket** using **C#** and device SDK.

### Nokia

Ottawa, CA

Software Engineer Intern

Sept. 2020 – April. 2021

- Sole developer for an automation tool using **Javascript**, **Python**, **VueJS**, **ElectronJS** utilized by over 100 engineers.
- Developed 12 components in **VueJS** and **Python**, growing user adoption from **13** to **107** engineers.
- Presented progress to a committee of **15** engineers bimonthly resulting in correct scoping of **4 Agile sprints**.

### Udacity

Remote

Data Engineering Mentor

April. 2019 – April. 2020

- Mentored **94 students** undergoing the Data Engineering Nanodegree receiving a student feedback rating of 4.32 out of 5.
- Clarified topics such as SQL Databases to students resulting in a 25% quicker lesson completion from 4 weeks to 3 weeks.
- Utilized technology such as **PostgreSQL** to guide students through projects resulting in over 70% of student completion.

### Nokia

Ottawa, CA

Software Engineer Intern

July. 2018 – Aug. 2018

- Collaborated with the networking product diagnostics team of **9 engineers** at Nokia to optimize the diagnostics process.
- Modernized legacy **Perl** scripts by redesigning them in **Python** to increase future compatibility with all devices.
- Implemented inventory tracking and automatic updates for 5 server devices using a **Bash script** and **Jenkins**.

## PROJECTS

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E-Commerce AR app: **Winner @ HackThe6ix** [C, Unity, Echo AR]

Aug. 2021

- Developed an app in **Unity** and **C#** to facilitate E-Commerce using AR to show products accurately to scale.

Speech Recognition: **Winner @ UofT Makeathon** [Python, Google Cloud]

Feb. 2021

- Created device which assists individuals with hearing loss to communicate with live transcription.
- Implemented a **Python** script which leveraged **Google Cloud speech API** to transcribe speech to text.

**Real Estate E-commerce startup** [NodeJS, MongoDB, React, JavaScript]

Oct. 2020

- Co-founded a real estate startup Seamless Estate, leveraging social media marketing to increase sales.
- Developed a **NodeJS** back end connected to a **MongoDB** database to store and update real estate listings in real time.

**Student Job Web Platform: URx InternHacks** [Django, SQL, HTML/CSS, Python]

July. 2020

- **Lead a team of 3 engineers** to build a web platform which aggregates relevant postings and aids in career networking.
- Developed an email template creation tool using **Django** to save and update emails instantly to a **SQL database**.

Sign Language Recognition: **Winner @ UofT Makeathon** [Python, TensorFlow, OpenCV, NumPy]

Feb. 2020

- Created a computer vision Machine learning model that detects Sign Language in a 36-hour makeathon using Tensorflow.
- Implemented a **Python** script which transformed **174,000 images** into a data set, increasing AI accuracy by **43%**.
- Competed against **263 participants** and was the **winner** of the UiPath automation challenge.

## LEADERSHIP

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**Student Speaker @ InternHacks**

Delivered parting speech to 254 students and mentors for closing ceremony.

**Chairman of First Robotics team**

Managed \$43,000 budget to compete with team of 44 at the provincial event.

**Accessibility Volunteer @ Terta Society**

Partnered with Cheo childrens' hospital to help people with a severe disability.