

YOUSSEF ZAYED

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EDUCATION

Carleton University

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

Ottawa, CA

Sept. 2019 – Sept. 2023

EXPERIENCE

Nokia

Ottawa, CA

Software Development Intern

Sept. 2020 – April. 2021

- Implement automation infrastructure and tool enhancements to maximize the productivity of ION Optics feature teams.
- Develop database applications using **Javascript, Python, MySQL**, and automated tests using **VueJS, ElectronJS**.

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

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

Present

- 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.
- Designed a **ReactJS** front end with **Bootstrap** library to ensure pleasant user interaction.

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.

Early Parkinson's detection AI [Python, TensorFlow, Flask, NumPy]

Jan. 2020

- Created an AI program using **TensorFlow** that detects signs of Parkinson's by analyzing drawings and voice samples.
- **Developed an AI** that analyzes voice samples of users based on published findings to determine signs of the disease.
- Integrated the two different AI models in a **Flask web application** in order to provide an accessible user interface.

RELEVANT SKILLS

Languages: Python | Javascript | SQL | Java | HTML/CSS | C++ | Perl | Bash

Frameworks/Technologies: Django | NodeJs | React | MongoDB | TensorFlow | Git | Arduino

Relevant Coursework: Discrete Structures | Object Oriented | Linear Algebra II | Statistical Modeling | Calculus II

COMMUNITY

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.