Mohamed Omer
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EDUCATION

Carleton University Ottawa, ON
BSC Computer Science, Minor in Mathematics - Dean's list - CGPA: 10.12/12(A) *Sep 2018 – Present*

SKILLS

Languages: C, C++, JAVA, Python, Javascript, HTML/CSS

Technologies: NodeJS, React/Redux, SASS, Pug, MongoDB, Git, TensorFlow

EXPERIENCE

Carleton University Ottawa, ON
Teaching Assistant *Sep 2019 - Dec 2019*
- Mentored students in the basics of Object-Oriented Programming in JAVA.
- Independently conducted tutorials and labs for 30-40 students
- Collaborated with the professor to create effective lesson plans for the course
- Reviewed assignments and exams and provided feedback to the students and the professor

PROJECTS

Restaurant Manager
Web App *March 2020*
- Designed a RESTful API in Node.JS to add session support to the application so that users may log in, place orders, and view a history of their orders.
- Built a database to store user profile and order information for each restaurant using MongoDB.
- Configured the Front-end with Pug, HTML and CSS.

Charity Selector
Web App *July 2019*
- Visualized and created a user-friendly website using React that acts as a search engine for charities with the ability to use multiple modifiers such as location, category, rating, funding etc.
- Implemented Node.JS application using an API to acquire the necessary charity data.

Activity Timer
Desktop App *July 2019*
- Developed an application using Python that runs in the background and records (in real time) the time spent on a website/application by a user.
- Implemented an output method that allows users to access their records in the form of a JSON file or as a graphic.

Surveillance Software
Object-Detection Software *June 2019*
- Deployed a surveillance video system that runs on a Raspberry-Pi and notifies users of unrecognized personnel via text.
- Trained a TensorFlow model to detect known and unknown faces.
- Used the Twillio library on Python to implement the object detection application.

VOLUNTEER

The Duke of Edinburgh's Award Dubai, U.A.E
Group Expedition Leader (Camping) *Sep 2015 - Jun 2018*
- Delegated specific resources to each of the 6 members to carry based on physical capacity; group stayed self sufficient through the entire trek on all 4 expeditions.
- Resolved conflicts between team members by mediating discussions, allowing each individual to express their perspective and hence devise an appropriate plan.