RAFID AKHTER

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CAREER OBJECTIVE

I am a self-motivated and creative person, I am interested in artificial intelligence and software engineering and currently pursuing a career in this field and actively looking for software developer position.

EDUCATION

Bachelor of Engineering: Mechanical ,Co-op
April 2017
Carleton University, Ottawa, ON, Canada

TECHNICAL SKILLS

Software Skills

- Python,C++
- React
- OpenCV
- Machine Learning
- SQL,SQlite
- Javascript,HTML,CSS
- Data structures and Algorithms
- Image Processing
- Matlab, LabView

Mechanical Engineering

- Vessel propulsion system
- HVAC
- Power Generation
- Research and development
- Heat Transfer
- Gas emission testing
- Instrumentation
- Control system
- Statistical analysis
- Signal Processing

PERSONAL PROJECT

Smart AI Drone
python,OpenCV
https://github.com/rafidakhter/DroneFaceTracking

- Implemented object detection and human pose recognition algorithm
- Used neural network and logistic regression algorithm to train drone to follow a person during outdoor activities

Reminder App
python,PostgreSQL,GoogleAPI
https://github.com/rafidakhter/Reminder-app

- Used PostgreSQL and REST API to access and store user data
- Implemented Google API to get users geolocation
- Implemented a feature so that if the user is within a certain vicinity of the desired location, the app would send the user a reminder notification

Weather and ToDolist
React, Javascript, API, CSS,HTML
https://weather-app-e359b.web.app/

- Used React framework to make a weather app that changes icon and colour based on the selected location, and data from API request
- Made web to-do-list app using ReactJS. used React's functions to render app whenever there is a change and automatically save data in local storage so the data doesn't go away when the page is refreshed

EXPERIENCE

Canadian Coast Guards
Mechanical Engineer
May 2019 - Dec 2019

- Proposed a black and grey water distribution and treatment system
- Designed HVAC duct system in compliance with ISO-7547 standards
- Designed a hybrid power generation and hybrid propulsion system

Environment and Climate Change Canada
Mechanical Engineer
Jan 2019 - May 2019

- Evaluated the effectiveness of soot control strategies to reduce BC emissions from on-road vehicles
- Calibrated sensors for testing and gathered data for analysis
- Established standardized BC measurement protocol for transportation-generated emissions

Natural Resources Canada
Air Emission Instrumentation specialist
Jun 2017 - May 2018

- Wrote Standard Operation Procedure documents for lab
- Designed a UAV for gas flux calculation
- Implemented smoke propagation model for instrument uncertainty studies
- Wrote Matlab and Labview code to gather data from instruments