KAREEM ARAB
Software Developer & Research Assistant

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Ottawa, Canada 📍

itskareem.me 🌐

github.com/Kareemarab ⭘

WORK EXPERIENCE

Software Developer & Researcher
Macadamian/NSERC

02/2018 – Present   *Ottawa, ON, Canada*

Joint project between the Sensor Systems and IoT Lab and Macadamian, funded by NSERC.

Achievements/Tasks

- Development of a "Diabetes Coach"; a system that helps improve the lives of type 2 diabetes patients. The project involves the use of AI techniques as well as the development of an efficient and reliable system architecture to host the data analytics involved, as well as integrating it with the Macadamian Hive platform.

Research Assistant
Sensor Systems & IoT Lab @ Carleton University

05/2017 – Present   *Ottawa, ON, Canada*

The Sensor Systems and Internet of Things Lab is a central hub for innovative research in topics ranging from Smart Grid Systems to Energy Harvesting.

Achievements/Tasks

- R&D of machine learning algorithms for engineering applications
- Worked with feed-forward & recurrent neural networks, anomaly detection, digital signal processing, wireless sensor communications, real time embedded systems, sensors, autonomous systems

Vigor Enterprise
Office Administrator Intern

04/2015 – 08/2015   *Kuwait City, Kuwait*

Achievements/Tasks

- Took care of administrative tasks and such as company meetings and client presentations
- Helped organize seminar given by Lee Cockerell, former Executive Vice President of Operations for the Walt Disney World® Resort
- Helped organize Wayans Brothers Comedy Show Event

EDUCATION

Bachelor of Science, Computer Science, BCS
Carleton University, 4th Year Standing, expected graduation: 2019

09/2015 – Present   *Ottawa, ON, Canada*

Relevent Courses

- OOP
- Data Structures & Algorithms
- Software Engineering
- Calculus (I, II, III & IV)
- Operating Systems
- Signals & Systems (DSP)
- Systems Programming
- Web Development
- Discrete Structures
- Programming Paradigms

SKILLS

Swift · Python · Java · PHP · C · C++ · HTML/CSS/JS · MATLAB · SQL

PROJECTS

gif.t (06/2017 – Present)
- Full social network iOS app using the Parse Baas API using MVC Architecture
- Users can follow each other, comment and/or like each other's photos/videos as well report them.
- Implemented search functionality to search for other users
- Deployed to Heroku

PSAC Website (02/2018 – 04/2018)
- Developing a full-scale website for the Carleton University Postdoctoral Union using Laravel - www.psac77000.ca

Join-fy (01/2018 – 01/2018)
- A simple joiner built with Python w/ Pandas at it's core

Personal Website (06/2017 – 07/2017)
- Simple front-end website (www.itskareem.me)

Publication: Data Communication and Analytics for Smart Grid Systems ↗
- IEEE International Conference on Communications (ICC)

AVAILABILITY

4-8 Months (January - April/August)

LANGUAGES

English ● ● ● ● ●
Arabic ● ● ● ● ●

FRAMEWORKS, TOOLS AND METHODOLOGIES

Firebase · Parse · TensorFlow · Scikit-Learn · Xamarin · MySQL · Node.JS · React Native · Laravel · SSH · MongoDB · IBM Bluemix · MVC · Heroku · UML · Agile Development · XCode