

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

09/2015 – Present

Ottawa, ON, Canada

Relevant 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 (CUPU)
- Using PHP's Laravel to develop and AWS to host
- Dashboard for developer-independent editing
- 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)

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