# Kareem Arab

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itskareem.me

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| **education** | **CARLETON UNIVERSITY**<br>Bachelor of Science in Computer Science<br>*Expected graduation: December 2019*<br>**Availability**: *May — August* | *Fall 2015* |
| **work experience** | **CARLETON UNIVERSITY POSTDOCTORAL UNION**<br>*Full-Stack Web Developer*<br>- Developed a website in PHP using Laravel<br>- Built frontend and backend (post/event system w/ dashboard for administrators) | *Winter 2018* |
| **research** | **IOT LAB @ CARLETON UNIVERSITY**<br>*Undergraduate Researcher*<br>- R&D of machine learning algorithms for engineering applications<br>- Worked with Feed Forward & Recurrent Neural Networks, Anomaly Detection & Digital Signal Processing (DSP)<br>- Worked with Wireless Sensor Communications & Embedded Systems | *Aug 2017 to Present* |
| | **DIABETES COACH (NSERC—MACADAMIAN—IOT LAB)**<br>*Research & Development Intern*<br>*** Joint project between the IoT Lab and Macadamian, funded by NSERC*<br>- Developed the "Diabetes Coach" system, a system that helps improve the lives of type II diabetes patients<br>- Researched, compared and applied several AI techniques and algorithms<br>- Used TensorFlow, IBM Bluemix and Python for R&D<br>- Developed a reliable modular system architecutre based on "fail-safe" model | *Winter 2018* |
| **publications** | **ARTIFICIAL INTELLIGENCE FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION**<br>*Author — IEEE Wireless Communications and Networking Conference (Accepted)* | *2019* |
| | **DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS**<br>*Co-author — IEEE International Conference on Communications (Published)* | *2018* |
| **achievement(s)** | **SHOPIFY — BUILD THINGS APP AWARD**<br>*Selected among six winning apps at Shopify's Build Things App Showcase* | *Nov 2018* |
| **projects** | **TRND**<br>- iOS app using the Parse Baas API using MVC Architecture built in XCode<br>- Users can follow each other, comment and/or like each other's photos/videos as well report them.<br>- Integrates the GIPHY API and deployed on Heroku | *2017-2018* |
| | **GLANCE**<br>- An Operating System task/process manager and visualizer, written in Python.<br>- Supports Linux and OSX | *Fall 2018* |
| | **More **projects** on *github.com/kareemarab* | |
| **languages & frameworks** | **PYTHON, SWIFT, C++, JAVA, C**<br>**FIREBASE, PARSE, TENSORFLOW, LARAVEL, IBM BLUEMIX, HEROKU** | |