

Kareem Arab

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itskareem.me

education	CARLETON UNIVERSITY Bachelor of Science in Computer Science <i>Expected graduation: August 2019</i>	<i>Fall 2015</i>
work experience	CARLETON UNIVERSITY POSTDOCTORAL UNION <i>Full-Stack Web Developer</i> <ul style="list-style-type: none">- Developed a website in PHP using Laravel- Built the frontend using HTML/CSS/JS	<i>Winter 2018</i>
research	IoT LAB @ CARLETON UNIVERSITY <i>Undergraduate Researcher</i> <ul style="list-style-type: none">- R&D of machine learning algorithms for engineering applications- Worked with Feed Forward & Recurrent Neural Networks, anomaly detection & Digital Signal Processing- Also worked with Wireless Sensor Communications & Embedded Systems DIABETES COACH (NSERC—MACADAMIAN—IOT LAB) <i>Research & Development Intern</i> <i>** Joint project between the IoT Lab and Macadamian, funded by NSERC</i> <ul style="list-style-type: none">- Developed the "Diabetes Coach" system, a system that helps improve the lives of type II diabetes patients.- Researched, compared and applied several AI techniques and algorithms- Used TensorFlow, IBM Bluemix and Python for R&D- Developed a reliable modular system architecture based on "fail-safe" model	<i>2017 to Present</i> <i>Winter 2018</i>
publications	ARTIFICIAL INTELLIGENCE FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION <i>Author — IEEE Wireless Communications and Networking Conference (Submitted)</i> DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS <i>Co-author — IEEE International Conference on Communications (Published)</i>	<i>2018</i> <i>2017</i>
projects	TRND <ul style="list-style-type: none">- iOS app using the Parse Baas API using MVC Architecture built in XCode- Users can follow each other, comment and/or like each other's photos/videos as well report them.- Integrates the GIPHY API and deployed on Heroku GLANCE <ul style="list-style-type: none">- An Operating System task/process manager and visualizer, written in Python.- Supports Linux and OSX JOIN-FY <ul style="list-style-type: none">- Joiner for JSON tables, Built in Python, using Pandas <i>**More projects on github/kareemarab</i>	<i>2017-2018</i> <i>Fall 2018</i> <i>Summer 2018</i>
languages & frameworks	PYTHON, SWIFT, JAVA, C, C++, HTML, CSS, JS, MATLAB FIREBASE, PARSE, TENSORFLOW, XCODE, LARAVEL, XAMARIN, MONGODB, IBM BLUEMIX, HEROKU	