Kareem Arab

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itskareem.me

education	**CARLETON UNIVERSITY**	*Fall 2015*
	Bachelor of Science in Computer Science	
	Expected graduation: December 2019	
	Availability: *May — August*	
work experience	**CARLETON UNIVERSITY POSTDOCTORAL UNION**	*Winter 2018*
	Full-Stack Web Developer	
	- Developed a website in PHP using Laravel	
	- Built the frontend using HTML/CSS/JS	
research	**IOT LAB @ CARLETON UNIVERSITY**	*Aug 2017 to Present*
	Undergraduate Researcher	
	- 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)	*Winter 2018*
	Research & Development Intern	
	** Joint project between the IoT Lab and Macadamian, funded by NSERC	
	- 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 architecutre based on "fail-safe" model	
publications	**ARTIFICIAL INTELLIGENCE FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION**	*2019*
	Author — IEEE Wireless Communications and Networking Conference (Accepted)	
	DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS	*2018*
	Co-author — IEEE International Conference on Communications (Published)	
achievement(s)	**SHOPIFY — BUILD THINGS APP AWARD**	*Nov 2018*
	Selected among six winning apps at Shopify's Build Things App Showcase	
projects	**TRND**	*2017-2018*
	- 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	*Fall 2018*
	- An Operating System task/process manager and visualizer, written in Python.	
	- Supports Linux and OSX	
	More **projects on *github.com/kareemarab*	
languages & frameworks	**PYTHON, SWIFT, JAVA, C, C++, HTML, CSS, JS, MATLAB**	
	FIREBASE, PARSE, TENSORFLOW, LARAVEL, XAMARIN, IBM BLUEMIX, HEROKU	