## Kareem Arab

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work experience	NEUROVINE Software Engineer - Built multiple APIs w/ AWS Lambda that provide functionality to the mobile app and clinician portal which are helping advance Neurovine into the first phase of testing - Worked on building a consumer mobile app as well as a research clinicians portal using the Ionic (Angular) cross-platform framework - Worked w/ Data Science team to build an EEG analysis system which provides real-time feedback of cognitive over-exertion to concussion patients - Developed an integration system using Pip that allows the data-science team to develop their algos independently and update the respective APIs automatically when needed - Took on a dynamic role working through the entire stack in a challenging start-up environment	Apr 2019 - Sep 2020
	CARLETON UNIVERSITY POSTDOCTORAL UNION Full-Stack Web Developer · freelancing - Developed website for the Carleton University Postdoctoral Union using Laravel (PHP) along with an administrative dashboard to control posts and events	Winter 2018
education	CARLETON UNIVERSITY BSc in Computer Science · graduated	Spring 2020
research	IOT LAB @ CARLETON UNIVERSITY  Undergraduate Researcher  - R&D of machine learning algorithms for engineering applications  - Helped research the best performing inference techniques on Smart Grid energy data  - Learned to work w/ Neural Networks, Anomaly Detection, Digital Signal Processing (DSP) & Wireless Sensor Communications	2017 - 2019
	DIABETES COACH (MACADAMIAN—IOT LAB)  Research & Development Intern  - Helped build a system that aims to improve the lives of type II diabetes patients through self-management using voice control (Alexa) and real-time feedback	Winter 2018
publications	ARTIFICIAL INTELLIGENCE FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION  Author — IEEE Wireless Communications and Networking Conference	2019
	Data Communication and Analytics for Smart Grid Systems Co-author — IEEE International Conference on Communications	2018
achievement(s)	SHOPIFY — BUILD THINGS APP AWARD Winner of the best App award @ Shopify's Build Things App Showcase	Nov 2018
projects	C&W Adversarial Attack - Comparing the effects of Gaussian and Adversarial Perturbations on a CNN	Winter 2020
	NEURAL NETWORKS - A collection of different Implementations of NNs (Hopfield, RBF and Convolutional)	Summer 2020
	TRND - Social network built only for GIFs. Built on iOS using Xcode – Swift	2017-2018
	**More <b>projects</b> on <i>github.com/kareemarab</i>	
languages,	PYTHON, SWIFT, TYPESCRIPT, HTML, (S) CSS/SASS, C++	

frameworks and TensorFlow, AWS Lambda, Serverless, Git, CI/CD (GitHub Actions), Ionic (An-

technologies Gular), Firebase, Gatsby, Parse, NextJS, Laravel, DynamoDB