Kareem Arab

me@kareemarab.com 613.255.5483 — Ottawa, Canada kareemarab.com

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 Swift	2017-2018
	**More projects on <i>github.com/kareemarab</i>	
languages, frameworks and	PYTHON, SWIFT, TYPESCRIPT, HTML, (S)CSS/SASS TENSORFLOW, AWS LAMBDA, SERVERLESS, GIT, CI/CD (GITHUB ACTIONS), IONIC (ANCHEAR), FIREBASE, CATSBY, PARSE, NEVTIS, LABAYEL, DYNAMODR	

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