

Kareem Arab

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work experience	NEUROVINE <i>Software Engineer</i> - Built 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 - Helped develop a consumer mobile app as well as a research clinicians portal using the Ionic (Angular) cross-platform framework - Collaborated w/ Data Science team to build an EEG analysis system which provides real-time feedback of cognitive over-exertion to concussion patients through an app - Helped setting up 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 fast-paced start-up environment - Worked on satisfying HIPAA requirements within the Neurovine system	Apr 2019 - Sep 2020
	CARLETON UNIVERSITY POSTDOCTORAL UNION <i>Web Developer · freelancing</i> - 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 Bachelor of Computer Science (BSc)	Spring 2020
research	IoT LAB @ CARLETON UNIVERSITY <i>Undergraduate Researcher</i> - Helped research the best performing inference techniques on Smart Grid energy data - Learned to work w/ Neural Networks, DSP & Wireless Sensor Communications	2017 - 2019
	DIABETES COACH (MACADAMIAN—IOT LAB) <i>Research & Development Intern</i> - 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 <i>Author — IEEE Wireless Communications and Networking Conference</i>	2019
	DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS <i>Co-author — IEEE International Conference on Communications</i>	2018
achievement(s)	SHOPIFY — BUILD THINGS APP AWARD <i>Winner of the best App award @ Shopify's Build Things App Showcase</i>	Nov 2018
projects	C&W ADVERSARIAL ATTACK - Comparing the effects of Gaussian and Adversarial Perturbations on a CNN's input space	Winter 2020
	NEURAL NETWORKS - A collection of different Implementations of neural networks (Hopfield, RBF and Convolutional) built using TensorFlow	Summer 2020
	TRND - A social network app for GIFs. Built on iOS using Xcode – Swift	2017-2018
	**More projects on github.com/kareemarab	
languages, frameworks and technologies	PYTHON, SWIFT, TYPESCRIPT, HTML, (S)CSS/SASS, C++ TENSORFLOW, AWS LAMBDA, SERVERLESS, GIT, CI/CD (GITHUB ACTIONS), IONIC (ANGULAR), FIREBASE, GATSBY, PARSE, NEXTJS, DYNAMODB	