Kareem Arab

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languages, SWIFT — PYTHON — TYPESCRIPT — HTML/(S)CSS/ — C++

frameworks and technologies	XCODE — IOS — TENSORFLOW — AWS LAMBDA/SERVERLESS — REST — GIT — CI/CD (GITHUB ACTIONS) — LINUX — IONIC (ANGULAR) — FIREBASE — FIRESTORE — PARSE — REALM — NEXTJS — DYNAMODB — VERCEL — MATHJAX — LATEX	
work experience	NEUROVINE Software Engineer - Built APIs w/ AWS Lambda that provide functionality to multiple apps - Helped develop a consumer mobile app & research portal using the Ionic (Angular) - Collaborated w/ Data Science team to build a Python real-time EEG analysis system - Helped set up an integration system using PIP that allows the data-science team to develop their algos. independently and update the respective APIs automatically - Worked through the entire stack in a dynamic start-up environment - Helped implement HIPAA requirements across all our systems	Apr 2019 - present
	CARLETON UNIVERSITY POSTDOCTORAL UNION Web Developer - 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
projects	HANDSHAKE — <i>Proprietary</i> - Private events iOS app - beta release soon. Built using Swift	2018
	TRND - A social network app for GIFs. Also built using Swift	2018
	GUASSIAN/CARLINI-WAGNER ADVERSARIAL ATTACKS - Comparing the effects of Gaussian and Adversarial Perturbations on a convolutional neural network's input space	Winter 2020
	NEURAL NETWORKS - A collection of different Implementations of neural networks (Hopfield, RBF and Convolutional) built using TensorFlow	Summer 2020
	GLANCE - Linux OS Task Manager written in Python	2018
	** More projects on <i>github</i> .	
research	IOT LAB @ CARLETON UNIVERSITY Undergraduate Researcher - 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) - Helped build a system that aims to improve the lives of type II diabetes patients through self-management using voice control and real-time feedback	Winter 2018
publications	AI 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	Nov 2018

Winner of the best App award @ Shopify's Build Things App Showcase