

Kareem Arab

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Ottawa, Canada

kareemarab.com

languages, frameworks and technologies SWIFT — PYTHON — TYPESCRIPT / JAVASCRIPT — HTML/(S)CSS/ — C++
XCODE — IOS — TENSORFLOW — AWS LAMBDA/SERVERLESS — REST — GIT — CI/CD
(GITHUB ACTIONS) — LINUX — IONIC (ANGULAR) — FIREBASE — GATSBY — PARSE —
LARAVEL — NEXTJS — VUEJS — DYNAMODB / NOSQL — VERCEL — MATHJAX — LATEX

work experience **NEUROVINE**

Software Engineer

Apr 2019 - present

- Built **serverless 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

CARLETON UNIVERSITY POSTDOCTORAL UNION

Winter 2018

Web Developer

- Developed website for the Carleton University Postdoctoral Union using **Laravel (PHP)** along with an administrative dashboard to control posts and events

education **CARLETON UNIVERSITY**

Spring 2020

Bachelor of Computer Science (BSc)

projects **TRND**

2018

- A social network app for GIFs. Built on **iOS** using **Xcode** – **Swift**

C&W ADVERSARIAL ATTACK

Winter 2020

- Comparing the effects of Gaussian and Adversarial Perturbations on a CNN’s input space

NEURAL NETWORKS

Summer 2020

- A collection of different Implementations of neural networks (Hopfield, RBF and Convolutional) built using **TensorFlow**

GLANCE

2018

- **Linux OS** Task Manager written in Python

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2018

- Personal website built on: **NextJS**, **Vercel** & **MathJax**

** More **projects** on *github*.

research IoT LAB @ CARLETON UNIVERSITY

2017 - 2019

Undergraduate Researcher

- Helped research the best performing inference techniques on Smart Grid energy data
- Learned to work w/ **Neural Networks, DSP & Wireless Sensor Communications**

DIABETES COACH (MACADAMIAN—IOT LAB)

Winter 2018

- 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

publications **AI FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION**

2019

Author — IEEE Wireless Communications and Networking Conference

DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS

2018

Co-author — *IEEE International Conference on Communications*

achievement(s) SHOPIFY — BUILD THINGS APP AWARD

Nov 2018

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