

Kareem Arab

me@kareemarab.com

Ottawa, Canada

languages, frameworks and technologies	SWIFT — JAVA — PYTHON — TYPESCRIPT — SQL — HTML/(S)CSSss IOS, IPADOS, XCODE, REALM, SERVERLESS (AWS LAMBDA/GCP FUNCTIONS) — GCP — AWS — K8s — HELM — DOCKER — VAULT — CI/CD (XCODE CLOUD, GITHUB AC- TIONS, JENKINS, SPINNAKR) — TENSORFLOW — SPRINGBOOT — MYSQL — REDIS — DYNAMODB — IONIC — FIREBASE — RANCHER — SPLUNK — LATEX	
work experience	<p>AMADEUS <i>Full Stack Engineer</i> - Involved in designing, building and integrating Multi-Factor Authentication (MFA) into multiple production systems - Invloed in planning and execution of a multi-service deployment to Rancher - Responsibility over critical system components & onboarding of new engineers - Aided in the design, development and testing of internal tools (user-management, code-review listing, etc.) that help other developers in their development proccess</p> <p>NEUROVINE <i>Software Engineer</i> - Built APIs w/ AWS Lambda that provide functionality to multiple apps - Helped develop a consumer mobile app & research portal using the Ionic - Collaborated w/ Data Science team to build a Python real-time EEG analysis system - Helped implement HIPPA requirements across all our systems</p>	<p>Mar 2021 - present</p> <p>Apr 2019 - Feb 2021</p>
education	CARLETON UNIVERSITY Bachelor of Computer Science (BSc)	Spring 2020
projects	HANDSHAKE - Private events iOS app - beta. Built using Swift, Firebase, Google Cloud Functions, Cloud Scheduler and Realm DB	2018
	TRND - A social network app for GIFs. Built using Swift and Parse	2018
	GUAUSSIAN/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 Con- volutional) built using TensorFlow	Summer 2020
	** More projects on github.	
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 and 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 <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
achievements	SHOPIFY — BUILD THINGS APP AWARD <i>Winner of the best App award @ Shopify's Build Things App Showcase</i>	Nov 2018