

Kareem Arab

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languages, frameworks and technologies	SWIFT — JAVA — PYTHON — TYPESCRIPT — SQL — HTML/(S)CSSSS IOS, XCODE, REALM, SERVERLESS (AWS LAMBDA/GCP FUNCTIONS) — GCP — AWS — K8S — HELM — DOCKER — VAULT — CI/CD (XCODE CLOUD, GITHUB ACTIONS, JENKINS, SPINNAKER) — TENSORFLOW — SPRING BOOT — MYSQL — REDIS — DYNAMODB — IONIC — FIREBASE — RANCHER — SPLUNK — LATEX	
work experience	AMADEUS <i>Full Stack Engineer</i> <ul style="list-style-type: none">- Developed and integrated Multi-Factor Authentication (MFA) into our existing authentication service, enhancing account security for millions of users.- Developed and executed multiple service deployments to Rancher K8s w/ caching, resulting in self-healing deployments, increased capacity and reduced database load.- Responsibility over major system components & onboarding of new engineers.- Led grooming/solutioning sessions & stand-ups.- Designed and developed internal tools (user-management, code-review listing, etc.) that help developers streamline their development process.	<i>Mar 2021 - present</i>
	NEUROVINE — STARTUP <i>Software Engineer</i> <ul style="list-style-type: none">- Developed APIs built on AWS Lambda (serverless) that drove our mobile and research portal apps. It also drove our internal data-science pipeline.- Shipped a consumer mobile app & a research portal built w/ Ionic.- Collaborated w/ the Data Science team to build a real-time EEG analysis system.- Helped implement HIPPA requirements across our systems.	<i>Apr 2019 - Feb 2021</i>
education	CARLETON UNIVERSITY Bachelor of Computer Science (BSc)	<i>Spring 2020</i>
projects	HANDSHAKE — iOS App <ul style="list-style-type: none">- Private real-time group chat w/ built-in event management - beta. Built using Swift, Firebase, Google Cloud Functions, Cloud Scheduler and Realm DB.	<i>2018</i>
	TRND <ul style="list-style-type: none">- A social network app for GIFs. Built using Swift and Parse.	<i>2018</i>
	GUASSIAN/CARLINI-WAGNER ADVERSARIAL ATTACKS <ul style="list-style-type: none">- Comparing the effects of Gaussian and Adversarial Perturbations on a convolutional neural network's input space.	<i>Winter 2020</i>
	NEURAL NETWORKS <ul style="list-style-type: none">- A collection of different Implementations of neural networks (Hopfield, RBF and Convolutional) built using TensorFlow. <p>** More projects on github.</p>	<i>Summer 2020</i>
achievements	SHOPIFY — BUILD THINGS APP AWARD <i>Winner of the best App award @ Shopify's Build Things App Showcase.</i>	<i>Nov 2018</i>
research	IoT LAB @ CARLETON UNIVERSITY <i>Undergraduate Researcher</i> <ul style="list-style-type: none">- Researched the best performing inference techniques on Smart Grid energy data.- Built a real-time multi-modal data streaming system using a Raspberry Pi and IBM Cloud.	<i>2017 - 2019</i>
	DIABETES COACH (MACADAMIAN—IOT LAB) <ul style="list-style-type: none">- 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.	<i>Winter 2018</i>
publications	** All publications on google scholar.	