

Kareem Arab

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Ottawa, Canada

languages, frameworks and technologies	SWIFT — JAVA — PYTHON — TYPESCRIPT — SQL — HTML/(S)CSSss SERVERLESS (AWS LAMBDA/GCP FUNCTIONS) — GCP — AWS — AZURE — K8s — HELM — DOCKER — TERRAFORM — VAULT — CI/CD (GITHUB ACTIONS, JENKINS, SPINNAKR) — IOS — TENSORFLOW — MYSQL — REDIS — DYNAMODB — IONIC (AN- GULAR) — FIREBASE — REALM — NEXTJS — LATEX	
work experience	AMADEUS <i>Full Stack Engineer</i> - Involved in designing, building and integrating Multi-Factor Authentication (MFA) into multiple production systems. - Aided in the design, development and testing of internal tools (user-management, code-review listing, etc.) that help other developers in their development proccess.	Mar 2021 - present
	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 (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 - Helped implement HIPPA requirements across all our systems	Apr 2019 - Feb 2021
education	CARLETON UNIVERSITY Bachelor of Computer Science (BSc)	Spring 2020
projects	HANDSHAKE - Private events iOS app - beta. Built using Swift, Firebase, Google Cloud Functions and Realm DB	2018
	TRND - A social network app for GIFs. Also 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