Kareem Arab

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languages	PYTHON — JAVA — SWIFT — TYPESCRIPT — GO (ELEMENTARY PROFICIENCY)	
frameworks and technologies	iOS — XCode — Realm — NextJS — React — Serverless — GCP — AWS — K8s — Helm — Docker — Vault — CI/CD (GH Actions, Jenkins, Spinnaker) — TensorFlow — MySQL — Redis — DynamoDB — Ionic — Firebase — Rancher — Splunk — Latex	
processes	Kanban, Agile & Scrum	May 2021 sayoo aa t
work experience	Full Stack Engineer - Help develop and integrate Multi-Factor Authentication (MFA) into an existing authentication service, enhancing account security for users. - Developed and executed multiple service migration to Rancher k8s + caching, resulting in self-healing deployments, increased capacity and reduced database load for Black Friday (result: success/no prod issues). - Mitigated xss attacks by developing an end-to-end reporting solution. - Led scrum & grooming sessions, pushing multiple features into the development pipeline + onboarding new engineers. - Worked w/ a hybrid system architecture (on-prem servers & GCP)	Mar 2021 - present
	NEUROVINE Software Engineer - Developed APIs built on AWS Lambda (serverless) in Python 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 ml pipeline Helped implement HIPAA requirements across our systems.	Apr 2019 - Feb 2021
education	CARLETON UNIVERSITY Bachelor of Computer Science (BSc)	Spring 2020
projects	HANDSHAKE - Private real-time group chat w/ built-in event management - beta. Built using Swift, Firebase, Google Cloud Functions, Cloud Scheduler and Realm DB.	present
	RP - A multithreaded HTTP Redis proxy server w/ an LRU cache.	2018
	GUASSIAN/CARLINI-WAGNER ADVERSARIAL ATTACKS - Gaussian & Adversarial Perturbations on a CNN's input space.	Winter 2020
	NEURAL NETWORKS - A collection of different Implementations of neural networks built using TensorFlow.	Summer 2020
	** More projects on <i>github</i> .	
research	IOT LAB @ CARLETON UNIVERSITY Undergraduate Researcher - Conducted research on the best ml model applications on Smart Grid energy data. - Built a real-time multi-modal data streaming system using a Rasp. Pi & IBM Cloud.	2017 - 2019
	DIABETES COACH (MACADAMIAN—IOT LAB) - Type II diabetes self management tool.	Winter 2018
achievements	SHOPIFY — BUILD THINGS APP AWARD Winner of the best App award @ Shopify's Build Things App Showcase.	Nov 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	2018

 ${\it Co-author-IEEE\ International\ Conference\ on\ Communications}$