

Kareem Arab

Full stack generalist
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Ottawa, Canada — Remote

languages	GO — PYTHON — SWIFT — TYPESCRIPT — LaTeX	
frameworks/libraries	React — NextJS — TensorFlow — Gorilla — UIKit	
technologies	AWS Lambda — Websockets — Kuberentes — CI/CD technologies (Jenkins, etc.)	
cloud platforms	GCP — AWS — Azure — Vercel	
databases	MongoDB — Redis — DynamoDB — Firestore — MySQL	
processes	Kanban — Agile — Scrum	
work experience	AMADEUS — <i>Full Stack Engineer</i> <ul style="list-style-type: none">- Collaborated with cross-functional teams to plan and implement the migration of our Guest Management Solutions infrastructure from On-prem & GCP to Azure.- Collaborated on the design and implementation of a new Multi-Factor Authentication (MFA) system, enhancing account security for users.- Successfully migrated multiple services to Rancher k8s with caching, resulting in self-healing deployments and improved capacity and reduced database load for Black Friday.- Designed, built and tested highly performant APIs. NEUROVINE — <i>Software Engineer</i> <ul style="list-style-type: none">- Developed highly performant Serverless APIs built on AWS Lambda in Python that drove our mobile app as-well as our research and data-science pipelines.- Shipped a consumer mobile app & a research portal built w/ Ionic.- Worked closely with the data science team to integrate machine learning models into the platform.- Implement HIPAA compliance requirements across our systems/designs.	<i>Mar 2021 - present</i> <i>Apr 2019 - Feb 2021</i>
projects	PRINCIPAL <ul style="list-style-type: none">- Financial management platform. Stack: Go & React HANDSHAKE <ul style="list-style-type: none">- Real-time group chat w/ built-in event management. Stack: iOS & Serverless RP <ul style="list-style-type: none">- A multithreaded HTTP Redis proxy server w/ an LRU cache. GAUSSIAN—CARLINI-WAGNER ADVERSARIAL ATTACKS <ul style="list-style-type: none">- Gaussian & Adversarial Perturbations on a CNN's input space. NEURAL NETWORKS <ul style="list-style-type: none">- A collection of neural network implementations built u/ TensorFlow. ** More projects on github.	<i>present</i> <i>2020-2022</i> <i>2018</i> <i>Winter 2020</i> <i>Summer 2020</i>
research	IoT LAB @ CARLETON UNIVERSITY <i>Undergraduate Researcher</i> <ul style="list-style-type: none">- Conducted research on multi model applications for Smart Grid energy systems.- Built a real-time multi-modal data streaming system using a Rasp. Pi and IBM Cloud. DIABETES COACH (MACADAMIAN—IOT LAB) <ul style="list-style-type: none">- Type II diabetes self management tool.	<i>2017 - 2019</i> <i>Winter 2018</i>
education	CARLETON UNIVERSITY Bachelor of Computer Science (BSc)	<i>Spring 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>
publications	** List of Publications on Scholar.	