

# Kareem Arab

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kareemarab.com

<b>education</b>	<b>CARLETON UNIVERSITY</b> Bachelor of Science in Computer Science	<i>Spring 2020</i>
<b>work experience</b>	<b>NEUROVINE</b> <i>Software Engineer</i> <ul style="list-style-type: none"><li>- Worked on building a cross-platform app using Ionic framework</li><li>- Building system that integrates real-time analysis and cross-platform mobile app</li><li>- Worked on development of API using Serverless Lambda Functions</li></ul> <b>CARLETON UNIVERSITY POSTDOCTORAL UNION</b> <i>Full-Stack Web Developer · freelancing</i> <ul style="list-style-type: none"><li>- Developed a website in PHP using Laravel</li></ul>	<i>Apr 2019 to present</i>  <i>Winter 2018</i>
<b>research</b>	<b>IoT LAB @ CARLETON UNIVERSITY</b> <i>Undergraduate Researcher</i> <ul style="list-style-type: none"><li>- R&amp;D of machine learning algorithms for engineering applications</li><li>- Worked with Neural Networks, Anomaly Detection, Digital Signal Processing (DSP), Wireless Sensor Communications &amp; Embedded Systems</li></ul> <b>DIABETES COACH (NSERC—MACADAMIAN—IOT LAB)</b> <i>Research &amp; Development Intern</i> <i>** Joint project between the IoT Lab and Macadamian, funded by NSERC</i> <ul style="list-style-type: none"><li>- Developed the "Diabetes Coach" system, a system that helps improve the lives of type II diabetes patients</li></ul>	<i>2017 - 2019</i>  <i>Winter 2018</i>
<b>publications</b>	<b>ARTIFICIAL INTELLIGENCE FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION</b> <i>Author — IEEE Wireless Communications and Networking Conference</i>  <b>DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS</b> <i>Co-author — IEEE International Conference on Communications</i>	<i>2019</i>  <i>2018</i>
<b>achievement(s)</b>	<b>SHOPIFY — BUILD THINGS APP AWARD</b> <i>Winner of the best App award @ Shopify's Build Things App Showcase</i>	<i>Nov 2018</i>
<b>projects</b>	<b>TRND</b> <ul style="list-style-type: none"><li>- iOS app using the Parse Baas API using MVC Architecture built in XCode</li></ul> <b>NEURAL NETWORKS</b> <ul style="list-style-type: none"><li>- A collection of different TensorFlow 1.15 Implementations of NNs (Hopfield, RBF and Convolutional)</li></ul> <b>C&amp;W ADVERSARIAL ATTACK</b> <ul style="list-style-type: none"><li>- Comparing the effects of Gaussian and Adversarial Perturbations on a CNN</li></ul> <i>**More projects on <a href="https://github.com/kareemarab">github.com/kareemarab</a></i>	<i>2017-2018</i>  <i>Fall 2018</i>  <i>Fall 2018</i>
<b>languages, frameworks and technologies</b>	<b>PYTHON, SWIFT, JAVASCRIPT/TYPESCRIPT, HTML, (S)CSS/SASS, JAVA, TENSORFLOW, FIREBASE, SERVERLESS, AWS LAMBDA, PARSE, IONIC, NEXTJS/VERCEL, LARAVEL, DYNAMODB</b>	