

Kareem Arab

me@kareemarab.com

613.255.5483 — Ottawa, Canada

kareemarab.com

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| education | CARLETON UNIVERSITY BSc in Computer Science | <i>Spring 2020</i> |
| work experience | NEUROVINE <i>Software Engineer</i> <ul style="list-style-type: none">- Worked on multiple APIs built on AWS Lambda Functions + Serverless- Worked on building a cross-platform mobile apps using Ionic (Angular) framework- Worked with Research & Data Science teams to build real-time data analysis systems- Took on a dynamic role working through the entire stack in a challenging startup environment CARLETON UNIVERSITY POSTDOCTORAL UNION <i>Full-Stack Web Developer · freelancing</i> <ul style="list-style-type: none">- Developed a website in PHP using Laravel | <i>Apr 2019 to present</i> <i>Winter 2018</i> |
| research | IoT LAB @ CARLETON UNIVERSITY <i>Undergraduate Researcher</i> <ul style="list-style-type: none">- R&D of machine learning algorithms for engineering applications- Worked with Neural Networks, Anomaly Detection, Digital Signal Processing (DSP), Wireless Sensor Communications & Embedded Systems DIABETES COACH (MACADAMIAN—IOT LAB) <i>Research & Development Intern</i> <ul style="list-style-type: none">- Worked on developing a system that helps improve the lives of type II diabetes patients through technology-aided self-managing techniques | <i>2017 - 2019</i> <i>Winter 2018</i> |
| publications | ARTIFICIAL INTELLIGENCE FOR DIABETES MELLITUS TYPE II: FORECASTING AND ANOMALY DETECTION <i>Author — IEEE Wireless Communications and Networking Conference</i> DATA COMMUNICATION AND ANALYTICS FOR SMART GRID SYSTEMS <i>Co-author — IEEE International Conference on Communications</i> | <i>2019</i> <i>2018</i> |
| achievement(s) | SHOPIFY — BUILD THINGS APP AWARD <i>Winner of the best App award @ Shopify's Build Things App Showcase</i> | <i>Nov 2018</i> |
| projects | TRND <ul style="list-style-type: none">- iOS app using the Parse Baas API using MVC Architecture built in XCode NEURAL NETWORKS <ul style="list-style-type: none">- A collection of different Implementations of NNs (Hopfield, RBF and Convolutional) C&W ADVERSARIAL ATTACK <ul style="list-style-type: none">- Comparing the effects of Gaussian and Adversarial Perturbations on a CNN <i>**More projects on github.com/kareemarab</i> | <i>2017-2018</i> <i>Fall 2018</i> <i>Fall 2018</i> |
| languages, frameworks and technologies | PYTHON, SWIFT, JAVASCRIPT/TYPESCRIPT, HTML, (S)CSS/SASS, JAVA TENSORFLOW, SERVERLESS, GIT, CI/CD (GITHUB ACTIONS), IONIC, FIREBASE, AWS LAMBDA, PARSE, NEXTJS/VERCEL, LARAVEL, DYNAMODB | |