# Education

## University of Texas, Arlington January 2018 – December 2019

* **Masters of Science in Computer Science**

## Baylor University August 2013 – May 2017

* **BBA in Management Information Systems -Pre-Med**

# Skills

**Programming Languages/Tools**

* Swift, HTML/CSS, JavaScript, ReactJS, NodeJS, Redux, Java, Spring Boot, Python, C/C++, PHP, SQL, MongoDB, Visual Basic, Lua, Hadoop, Scala, Pig, XPath/XQuery, Docker, Node-RED, IBM Cloud, Kubernetes, Redhat Openshift

**Miscellaneous/Coursework**

* Big Data Management, Agile Development, Computer Vision, Artificial Intelligence, Computer Networks, IOT and Edge Devices, MATLAB

**Online Courses**

* **App Development with Swift (iOS 11th Edition): Swift Course Completion – IBM Badge**
* **Hacking-With-Swift**
* **Introduction to ReactJS – Microsoft (edX Course)**
* **Intermediate C++ - Microsoft (edX Course)**

# Work Experience

**IBM (August 2019- Present) – Cloud Engineer/Software Developer/IT Specialist**

* Developed user interfaces, one which displayed real-time robot telemetry and visual analytics data, and another which allowed access to key robot functions, using **ReactJS** and **NodeJS**. Various libraries such as Bootstrap, graph libraries, and ExpressJS were used for development.
* Handled robot telemetry data via MQTT broadcasting and subscription. Used IBM IOT as a broker.
* Created a user administration login system for our robot operations via basic authentication – login sessions were created through the use of cookies and sessions. Integrated APIs from Node-RED flows.
* Developed an iOS application using **Swift** which served as a mobile version of a web application used to demonstrate robot telemetry data, visual analytics, and other key data.
* Demonstrated IBM’s Maximo Worker Insights solution – solution geared toward tackling safety issues in the work place resulting from the Covid-19 pandemic using IOT devices working on the Edge.
* Deployed applications to IBM Cloud.
* Created images and managed containers using Docker, Kubernetes, and RedHat OpenShift. Redhat Learning Subscription courses.

**Mr. Cooper - Internship (May 2019- August 2019)**

* Updated Mr. Cooper’s Loan Underwriter System and added a communication system to it – system allowed for end users to informed of key updates to the system.
* Front-end was done with **ReactJS** and associated libraries; back-end was developed via **NodeJS**, using ExpressJS and other associated NodeJS modules. Microsoft SQL Server served as a database system in order to keep track of users. **Java** Spring Boot framework served as a complimentary piece.

**Side-work**

* Created a 2D side scrolling Flappy Bird clone using the SpriteKit library; also created a single player pong game. Experience with augmented reality using ARKit (created a basketball shooting experience). Familiar with the iOS application life cycle – **Swift.**
* Developed image scoring application using IBM’s Visual Insights. Phone takes a picture which is scored with Visual Insights. Confidence score is returned - **Swift**.