# Michael McQuade

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## Education

### Oklahoma State University
*Bachelors of Science in Computer Science*
Fall 2016 - Spring 2019
**3.70 GPA**

### Tecnológico de Monterrey
*Computer Science - Study Abroad*
Summer 2017 - Spring 2018

## Experience

### ConocoPhillips
*HPC System Administrator*
*June 2019 - Present*

Administrate, Maintain and develop for HPC cluster of more than 5200 nodes

| | | | | |
|---|---|---|---|---|
| • Python | • PostGresQL | • Docker | • TypeScript | • Jenkins |
| • Node.js | • MySQL | • Singularity | • Unit Testing | • Java |
| • React.js | • Unity3D | • AWS | • MLFlow | • Artifactory |

### Foundation Software
*Software Development Intern*
*June 2018 - August 2018*

• Created internal label printer application using React, MS SQL, Windows Integrated Security, and Express.js
• Created proof-of-concept rewrite of marketing website foundationsoft.com
• Improved page load speeds from 6.2 seconds to 800 milliseconds

### AIMEX INGENIERÍA
*Independent Contractor*
*June 2017 - December 2017*

• Created custom time-clock software solution which takes a photograph when the employee clocks in, stores photos in DB, allowing later review.
• Created administration dashboard which allows viewing biweekly timeclock reports, the photographs, and the exportation of data into CSV format

### Prairie Glade Chihuahuas
*Independent Contract*
*September 2017 - Present*

• Created custom web application which allows client to add dogs for sale with no programming knowledge necessary

| | |
|---|---|
| • React.js | • Heroku |
| • Node.js / Express.js | • PostgreSQL |

### Apple Inc
*iTunes Store Senior Advisor*
*April 2012 - January 2015*

• Provided customer support for fraud-related issues in a high-stress environment while maintaining more than 98% customer satisfaction

## Projects

### Robot Vision

• Created a state machine which makes a TurtleBot play a game of Soccer
• Developed an application in Python which could generate "kick" instructions to a soccer-playing robot
• Utilized OpenCV and the Lucas-Kanade Optical Flow method to track motion

### ConocoPhillips Innovation Challenge 3rd Place Winner

• Collaborated with team to create proof-of-concept drilling rig controller
• Utilized Unity 3D for physics engine and user interface
• Connected multiple clients using AWS lambda and RESTful Node.js backend

## Certifications

• AWS Cloud Practitioner - 4/2020
• AWS Cloud Developer - In Progress