

# Michael Zarate

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## Objective

United States Army veteran with strong team leadership skills and work ethic pursuing an opportunity to grow and advance a career in Software Engineering.

## Technical Skills

- Operating Systems: Windows, OSX, Linux
- Applications: JetBrains IDE, Xcode IDE, Microsoft Visual Studio, Microsoft Office
- Programming Languages: Python, HTML, CSS, JavaScript, Ruby, C/C++, C#, Swift
- Frameworks: Bootstrap, Ruby on Rails, Flask
- Cloud, AWS: EC2, S3, CloudFront, Route 53, API Gateway, Lambda, CodeBuild, CodePipeline

## Experience

### Advisor IT Service Operations

Dell Technologies, Round Rock, Texas

Feb 2017 – Present

- Application support lead for finance and sales. Responsible for deploying code, monitoring applications, and supporting Federal production and operations.
- Tiger team developer for software monitoring and authentication tools, including a web application built with Visual Studio and Bootstrap to enable third-party vendors to register and partner with Dell Federal.
- Identified coding discrepancies and assisted in implementing best practices for greater application deployment efficiency, keeping in compliance with the high security production requirements.
- Operations member of the Federal Architectural Review Board.
- Lead solution designer for creating the Federal “Break Glass” tool to meet security requirements on privileged access to production systems, with automation and integration in the Cherwell ITSM tool.

### Software Engineer Internship

Commscope, Tempe, Arizona

June 2016 – August 2016

- Established an automated integration testing infrastructure with an MSBuild script running unit tests, creating and establishing database schemas, migrating data with fluent migrator and SQL Server, and performing integration tests.
- Developed a new design prototype using Microsoft Entity Framework, Entity-Attribute-Value (EAV), Repository and Unit of Work design patterns.

- Tested functional changes to code by measuring and validating performance of features between major released and unreleased versions.
- Incorporated Stakeholder Review Feedback by streamlining the user interface of the configuration application as part of Agile methodology.

## Education

### Bachelor of Science in Engineering

Arizona State University, Tempe, Arizona

Computer Systems Engineering

December 2016

G.P.A. 3.7

## Academic Projects

### Systems Capstone Project

- Led a team of bright engineering students on a yearlong project.
- Collaborated and designed with team to build an automated shutter system.
- Delegated subtasks to team members that best reflected their skills and interests.
- Developed high-level system design and architecture.
- Created design diagrams at system and component levels.

### iOS App

- Developed an Address Book application with an integrated map for iOS.
- Created a multi-view application utilizing CoreData, MapKit, and Segues for navigation.
- Configured Core data for permanent storage of user data.
- Implemented MVC architecture into application design pattern.

### API Driven Web App

- Co-Developed an API-driven web application to provide the user localized information of tracked, favorited, and rated locations within the area.
- Built application's core with APS.NET and Web Forms.
- Created custom APIs and hosted the endpoints, simplifying API calls to provide clean data to the user.
- Created API functionality with Yelp to get geocoded-based locations of stores, available products, and customer ratings.
- Created API functionality using OpenWeatherMap to provide local weather information.

## Personal Projects

- AWS based serverless portfolio with ReactJS front end, housed in an S3 bucket, deployed with an automated CI/CD pipeline with GitHub, AWS CodeBuild/CodePipeline, AWS Lambda
- AWS based serverless blog using Hexo, AWS S3, AWS Route 53, and AWS CloudFront
- Python Flask Web Apps. Key functionalities: Google and Facebook OAuth2 login, CRUD functionality with user data using SQL Alchemy; Front End: Bootstrap, Google Geocode API, Foursquare API

- Twitch.tv chat bot. Python IRC chat bot that can respond to chat commands.
- Docker Container class: an ongoing class to create images and work on projects.
- Machine Learning class to learn how to handle datasets and do predictive analytics.