

# SERGIO OROZCO

Software Engineer

## PROFILE

I am an aspiring Machine Learning Engineer with experience in data cleaning, feature engineering, and model creation, predominantly using Scikit-Learn. I am a quick learner with a desire to excel. I'm not complacent, and I treat everyday as an opportunity to learn.

## WORK EXPERIENCE

**Sierra Nevada Corporation**  
**Software Engineer I**

Jun2019-Present

- I currently develop front-end mission systems for the Department of Defense using Windows Presentation Foundation and Windows Forms in C#.
- I also develop plugins to emulate various pieces of hardware that can be used across different mission systems.

## PERSONAL PROJECTS

**Criminal Detection on Social Media**  
**Deep Learning**

Aug2019-Dec2019

- I created a Deep Learning model (Convolutional Neural Network) with Keras to read tweets that were embedded using word2vec that was able to accurately differentiate between criminally suggestive and non-criminally suggestive tweets.
- I created my own data set with the use of Tweepy, which is a python library that could scrape Twitter for various pieces of data including tweets, location, user, etc.
- At the end of this project, I managed to receive an accuracy of 79.77 percent on my test data.

## EDUCATION

**University of Colorado at Colorado Springs**  
**Bachelor of Science, Computer Science : GPA 3.68**

Aug2016-May2019

**United States Military Academy at West Point**  
**Bachelor of Science, Computer Science : GPA 3.3**

Jun2015-May2016



## LANGUAGES

Python

C #

Java

C++

## ML LIBRARIES

Scikit-Learn

Keras

Tensorflow

1X

## DATA LIBRARIES

Numpy

Pandas

Matplotlib

## CONTACT

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