

# MARCUS HERNANDEZ

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Portfolio: <https://marc-hern.github.io/>

## Objective

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Computer Science enthusiast with extensive experience in backend solutions, machine learning and data processing and analytics, mobile application development, and web-based application development. Seeking opportunities to develop personally, professionally, and to work collaboratively in a professional environment.

## Technical Skills

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- Prog. Languages: Python (Proficient), Java (Proficient), JavaScript (Familiar), HTML/CSS (Proficient)
- Database: SQL, MySQL
- IDE / Framework: Django, Django Rest Framework, Android Studio, Bootstrap
- Systems: Git, MacOS, Windows, Linux

## Work Experience

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Backend Software Engineer  
**TicketGuardian, Inc.**

May 2018 - Present  
Newport Beach, CA

- Performed extensive research on and contributed to the development of impactful internal features within a dockerized environment
- Developed robust suites for endpoint and unit tests using best programming practices
- Collaborated with front-end, reliability engineers, and other internal teams to ensure optimal solutions
- Created JSON schemas to validate API response body and ensure backwards compatibility of return object attributes and types

## Project Experience

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### Predictive Analytics in IMDB Dataset

- Preprocessing of data to reduce dimensionality size and narrow scope,
- Utilized matplotlib to stylize and organize graphs with corresponding data, OneHotEncoding to convert categorical data to numeric.
- Implemented KNN, Decision Tree, and RandomForest classifiers.

### MySQL Database Trivia Web Application

- Implemented MVC approach to web-based application utilizing MySQL database to store and retrieve trivia questions.
- Leveraged Sessions to ensure multiple users should be able to play at the same time.

### Photometric Walkthrough Mobile Application (Project Lead)

- Developed mobile application to make use of .IES files, specialized lighting files, for interior design projects.
- Worked as project lead by delegating work and ensuring completion regardless of member, researched and incorporated .IES files to main project.

## Education

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Bachelor of Science in Computer Science  
**California State University Los Angeles**

September 2014 – July 2017  
Los Angeles, CA