Jonathan Herrera

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Enthusiastic developer with a passion for anything pertaining to machine learning and data. Always looking to explore new approaches to further my love for logically breaking down complex and interesting ideas and problems. I have an eye for data and data visualization.

EDUCATION

- **University of California, Riverside** — Riverside, CA
  Bachelor of Science in Computer Science — *Sep. 2015 – Jun. 2018*

PROJECTS

- **Shuttle Analysis** — MEAN Stack, Python
  Long-term project
  - **Description**: A Web app that allows UCR students to enter their destination which notifies the shuttle about the ride requests. The app will provide the most optimal route to all destinations. Machine learning will be used to provide analysis to the routes taken and their request frequency. The end result is to save time and money for the shuttle program. Also aims is to reduce the amount of time taken for students to get to their destination.

- **Twitch.tv Analytics** — Python
  In development
  - **Description**: An app that determines if trending post on Reddit's livestreamfails subreddit provides positive and/or negative exposure to Twitch streamers. The app will analyze viewer analytics from Twitch to determine if there is a correlation with posts on Reddit. This project is done using Twitch and Reddit's APIs and will use machine learning to determine viewership trends.

- **Desmos Calculator** — Java, Firebase
  Senior Project
  - **Description**: An android app inspired by Desmos calculator. The project was done in 6 weeks through Agile development.
  - **Role**: Setting up the firebase database with the android app. Implementing OAuth with various accounts such as gmail and facebook. Implementing android intents to allow the application's functions to communicate with on another. Creating and interfacing a custom keyboard for the calculator.

- **Dodging Game** — C
  Embedded Systems
  - **Description**: A embedded systems project using various components such as a matrix and a joystick to control the player. The player has to avoid various bullets and laser that are attemping to hit the player.

- **Profscribe** — Javascript, Alexa skills
  Hackathon
  - **Description**: A web app to be used in lectures. Records human speech and transcribes it to text in real time. The web app uses IBM Watson's for speech recognition.
  - **Role**: Implement the speech recognition with Amazon's echo using alexa skills. Developing the front end.

SKILLS

- **Languages**: C++, C, Python, Java, and JavaScript.
- **Interest**: Machine Learning, Data Structures and Algorithms, Linux, MEAN Stack Development, Android Development, Embedded Systems, Data and Data visualization.
- **Special Skills**: Creative approach to programming without the complexity. Breaking down complex problems into manageable and simple sub-problems. Excellent communication and documentation skills. I am extremely familiar with Linux and I have a strong understanding with its usage. Rest API.