

JORGE ORTIZ

Engineering simple solutions to complex problems

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EXPERIENCE

Civil Engineering Intern

Walden & Associates

📅 06/2018 - 09/2018 📍 Irvine, CA

Civil Engineering Firm

- Worked directly under the Head Civil Engineer on private and public projects for cities such as Riverside, Anaheim, and Santa Ana
- Achieved proficiency with the program AutoCad while editing large building plans

Hardware & Product Design Intern

Akitio

📅 06/2017 - 09/2017 📍 Brea, CA

International company specializing in design, development, and manufacturing of external computer storage products

- Worked alongside Head Engineer and focused on device I/O, optimization and debugging
- Assisted the Operations Manager in fulfilling orders and managing distribution of our products

Surplus Computer Technician

University of California, Santa Cruz

📅 10/2016 - 05/2017

📍 Santa Cruz, CA

Campus site for surplus electronics

- Repair or recycle electronics from campus
- Wipe hard drives and load various Operating Systems such as Unix, macOS, and Windows

EDUCATION

Computer Science BS

University of California, Santa Cruz

📅 09/2015 - 06/2019

TECHNOLOGIES / SOFTWARE

UNIX

GIT

MatLab

Android Studio

Embedded Systems

MySQL

Linux

API Management Tools

Xcode

web2py

AutoCad

PROGRAMMING LANGUAGES

Java

Advanced ●●●●●

C/C++

Proficient ●●●●●

Python

Proficient ●●●●●

HTML/CSS

Proficient ●●●●●

JavaScript

Intermediate ●●●●●

Swift

Intermediate ●●●●●

MatLab

Intermediate ●●●●●

PROJECTS

MealGen

Mobile Applications Project

- Utilized Yummly API to access database of recipes and display various meals based on user input
- Developed algorithm to suggest meals based on current inventory of user ingredients
- Involved in unit testing, deployment and user acceptance test

Predicting HA1C Levels

Artificial Intelligence Project

- Uploaded Synthetic Health patient data set into a MySQL database to identify patients that had HA1C levels recorded
- Used a commercial neural network application to load the data and create multiple experiments seeking to accurately predict HA1C
- Our machine was able to learn to minimize error function using front and back propagation and the creation of multiple models to find the best inputs, weights, and model

AuxQ

Web Application Project

- Provides a web interface for Spotify users to join a "chat-room" of sorts, and request and queue songs to be played on chosen device
- Implemented queue and request system using Spotify API and SDK
- involved in back-end programming using node.js and react, as well as unit testing and deployment