

# Joe Martinez

COMPUTER SCIENCE · STUDENT

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## Education

### Texas Tech University

COMPUTER SCIENCE STUDENT

Aug. 2019 - May. 2023

## Skills

**Languages** Python, Bash, Javascript, MYSQL, PHP, C

**Libraries** Flask, Tensorflow, Pillow, Selenium, Pandas, Python-Regex, SQLite

**DevOps** Debian Linux, Docker, Nginx, Gunicorn, SSL, DNS

**Other Stuff** Adobe Products, Reverse Engineering, Open Source Intelligence

## Experience

### Advanced Particle Detector Laboratory at Texas Tech

UNDERGRADUATE RESEARCHER

Jan. 2021 - Oct. 2021

- Designed a computer vision model that detects imperfections in calorimeters to be installed at CERNs Large Hadron Collider
- Manually collected and classified datasets using a QVI Zone3 Gantry
- Wrote several tools for training, reporting and deploying the models on remote servers

### Texas Tech University Student Housing

IT STUDENT ASSISTANT

Oct. 2020 - Jan. 2021

- Wrote internal tool for producing complex date dimension tables
- Maintained production web applications with thousands of users
- Designed user friendly/responsive user interfaces

### FlowGlobe.io

WEB DESIGN INTERN

Oct 2018 - May 2019

- Consulted with large organizations to map out project requirements
- Satisfied client requirements using Content Management Systems
- Integrated analytics tools and advised on digital marketing campaigns

### WebDevTexas

FREELANCE WORDPRESS DEVELOPER

Feb 2018 - Oct 2018

- Built and maintained Wordpress sites for small business within the San Antonio area
- Launched effective digital marketing campaigns using the Facebook Businesses and Google Analytics platforms.

## Projects

### APDL Quality Control ([https://github.com/NotJoeMartinez/APDL\\_Quality\\_Control](https://github.com/NotJoeMartinez/APDL_Quality_Control))

UNDERGRADUATE RESEARCH

- Code to produce Tensorflow models for work at the Advanced Particle Detector Laboratory at Texas Tech
- Commandline Utilities for augmenting and splitting the existing dataset
- Automated toolset for testing and producing pdf reports of the trained model
- Proof of concept flask API for distributing the model to other reaserch labs

### MusicNotesML (<https://github.com/NotJoeMartinez/MusicNotesML>)

HACKATHON PROJECT

- Deployment of Optical Music Recognition Tensorflow models enabling beginner musicians to learn sheet by translating stanzas into an intuitive tabular notation.

## Extracurricular

### RaiderHacks

CO-FOUNDER & COO

Oct. 2019 - PRESENT

- Co-Founded a Student organization that specializes in Competitive Programming competitions, Hackathons & Cyber Security CTFs
- Hosts weekly workshops covering devops, cyber security and competitive programming patterns
- Currently has over 110 registered members and alumni employed at SnapChat, Apple and JP Morgan

### Lambda Chi Alpha Fraternity

BROTHER & PR CHAIR

Jan. 2021 - PRESENT

- Activity Maintain the chapters social media & website
- Design graphics, Produce Media for philanthropy & social events
- Created a Twilio sms messaging bot during fall recruitment that attributed to our largest intake of new members since 2014