Mariclaire De Guia

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EDUCATION

Texas Tech University   **May 2020 - August 2022**
BS in Computer Science, Minor in Mathematics   *Lubbock, TX*
- Whitacre College of Engineering
- Magna Cum Laude, 3.8 GPA
- Honors from the Honors College

PROJECTS

GhostPost – Learning Engagement Tool
Team Member
- Built front-end web application visuals and functionalities using Figma, JavaScript, HTML, CSS, and the React library to create a platform for lecturers and audiences to communicate with each other anonymously.
- Created project presentations, customer discovery reports, and general design reports.
- Collaborated with team members using GitHub and Git.

Vehicle Occupant Classification – Deep Learning Model
Team Member
- Built a deep learning model in Python using Keras libraries to classify images of vehicle occupants
- Employed Grad-CAM to provide interpretability and explainability to the model's results.
- Improved the model's average initial accuracy of 65.6% to 77.3% (an improvement of 11.7%) using added datasets and data augmentation.
- Collaborated with team members using GitHub and Git.

Portfolio Website
- Built a personal portfolio website using Figma, JavaScript, HTML, CSS, and the Angular framework.
- Planned aesthetically pleasing and effective designs to present important information.
- Researched and employed best practices for web accessibility.

Spottid – Social Media and E-Commerce Platform
Team Member, HackWesTx Participant
- Built front-end web application prototypes using Figma, JavaScript, HTML, CSS, and the React library to model a social media & e-commerce platform created to empower underground artists.
- Delivered project presentations and collaborated with team members using GitHub and Git.

SKILLS & TOOLSETS

JavaScript, TypeScript, HTML, CSS, Node.js, React, Angular, Figma, GitHub, Git, Python, Keras, Grad-CAM, Java, C/C++, Linux, Assembly, SQL, Firebase, Web accessibility, Collaboration, Presentation skills, Writing skills, Communication, Planning, Organization

HONORS & INVOLVEMENT
- Texas Tech University Google Developer Student Club
- HackWesTx Participant
- HACKUIOWA Participant
- Texas Tech University President's List
- Texas Tech University Dean's List