Eddie F. Carrizales

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EDUCATION:

Master of Science in Computer Science Expected Date: Dec 2024
The University of Texas at Dallas

Bachelor of Science in Computer Science Dec 2022
The University of Texas at Dallas, Honors: Cum Laude GPA: 3.71

TECHNICAL SKILLS:

Programming languages:	Python, C#, Swift, C++, Java, R, and SQL
Operating Systems:	Windows (Vista – 11), MacOS (Mavericks– Monterey), Linux (Ubuntu, Parrot OS, Kali)
Development Environments:	Visual Studio Code, PyCharm, IntelliJ IDEA, Xcode, MySQL, Jupyter, Google Colab
Language Libraries:	Scikit-learn, Pandas, NumPy, Selenium Web Driver, Matplotlib, Turtle, ARKit
Software Applications:	Microsoft Word, Excel, PowerPoint, Unity, Virtual Machines (Virtual Box, VMware, Parallels), Adobe Acrobat, UltiMaker Cura, Tinkercad, Figma, Git, GitHub, Core ML

PROJECTS:

Capital One: Vehicle Scanner Application

- Designed and created an iOS app using Figma and Xcode that used augmented reality and machine learning to identify the make and model of a vehicle and vehicle damages to determine the vehicle's market price.

Centralized Math Server

- Designed and implemented a centralized math server that used TCP to establish a connection between a client and the server and provided basic math calculation services to multiple clients using multithreading.

Neural Network Activation Functions (Machine Learning)

- Trained a neural network using the Multi-layer Perceptron classifier model to determine which activation function (Logistic, Tanh, or ReLu) provided the best predictions and lowest errors for the dataset chosen.

iOS Mobile Applications

- Created a Twitter clone using the Twitter API, an Instagram clone using a custom Parse database to store and retrieve posts, a movie browsing app that uses an API to fetch data from the web, and a tip calculator app.

EXPERIENCE:

The University of Texas at Dallas, *Student Assistant*, Richardson, Texas May 2023 – Present

- Developed an iOS application with Bluetooth Protocol integration to connect to an IoT device, retrieving temperature, pressure, and humidity data and transmitting it to an AWS server.
- Assisted in the development of real-time object tracking using a machine learning model to synchronize virtual and physical objects in Virtual Reality.
- Pioneered a method enabling seamless synchronization of physical and virtual spaces in Virtual Reality, eliminating the necessity for traditional controllers.

Student Government Association, *President*, Houston, Texas Apr 2019 – Apr 2020

- Developed a recommendation report for the Lone Star College-Cyfair administration to reduce the student health insurance cost, which resulted in almost 50% reduction for all students.
- Advised the college administration and chancellor of The Lone Star College System on the allocation of more than $700,000 dollars of campus-based student services fees.

Phi Theta Kappa International Honors Society, *Chapter President,* Houston, Texas Apr 2019 – June 2020

- Conducted academic research to measure the influence of electronic devices on children of ages 6+ and adults, which received regional and international recognition for being in the top 5 and top 3%, respectively.
- Led and supervised over ten college workshops and presentations at district and regional conferences with an average attendance of 50+ members.

ACTIVITIES:

Member, Society of Professional Hispanic Engineers, The University of Texas at Dallas
Member, Association of Computing Machinery, The University of Texas at Dallas