

CAROLINE MEDINA |

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EDUCATION

Northwest Vista College – San Antonio, TX

Bachelor of Applied Technology in Cloud Computing | Expected December 2026

GPA: 3.90

TECHNICAL SKILLS

Cloud: AWS (EC2, S3, IAM, VPC, IoT Core, Lambda, CloudWatch, DynamoDB)

AI/Computer Vision: YOLOv11, Roboflow, Intel RealSense

Programming: Python, C++, Linux/Bash

IoT & Data: MQTT, Streamlit

Tools: Git, Microsoft Office, Adobe Audition, AssetTiger

EXPERIENCE

Broadcast Engineer / IT Intern — Texas Public Radio

June 2025 – Present

Support on-premises IT and broadcast infrastructure, including servers, routers, workstations, microphones, speakers, and other broadcast equipment

Perform daily equipment and connection checks, troubleshoot issues, and replace or reconnect hardware to maintain reliable station operations

Assist with laptop deployment, onboarding, returns, and equipment setup for staff across the organization

Manage IT and broadcast equipment inventory and asset tracking using AssetTiger

Support broadcast operations using WideOrbit and Microsoft-based technologies, gaining hands-on experience across production and station systems

Assist senior engineering and IT staff with technical projects, infrastructure maintenance, and troubleshooting across the station

USDA REEU Research Fellow — University of Texas at San Antonio

Summer 2026

Developed an AI-powered crop inspection, sorting, and packaging system integrating YOLOv11, Intel RealSense, uFactory xArm5, AWS IoT Core, MQTT, DynamoDB, and Streamlit

Prepared and annotated a custom 7-class fruit dataset using Roboflow and trained/evaluated YOLOv11 for real-time fruit detection and classification

Implemented MQTT telemetry workflows through AWS IoT Core, storing robotic system data in DynamoDB for downstream analysis

Built a Streamlit dashboard to monitor fruit classifications, sorting activity, weight, errors, and system performance

Conducted end-to-end testing and troubleshooting across computer vision, robotics, and cloud components

Co-presented research at the UTSA College of AI, Cyber and Computing Summer Symposium

Research Intern — St. Mary's University, Dr. Hill

December 2024 – February 2025

Modified 3D-printed enrichment toys for otters to support research evaluating animal cognitive abilities

Collected experimental data and communicated findings to fellow student researchers

Research Intern — CONNECT, UTSA

May 2024 – July 2024

Developed user-focused training materials for beta software supporting aircraft structural risk-assessment workflows

Translated complex engineering and analytical concepts into accessible technical documentation

Strengthened technical communication through ongoing documentation development and collaboration with research teams

Research Intern — St. Mary's University, Dr. Ocampo

May 2021 – January 2022

Conducted structural integrity testing of 3D-printed materials, including petroleum jelly, stearic acid, and clay-based materials

Used 3D scanning and cloud-point technology to develop precise models for medical innovation and design applications

PROJECTS

NVC AI & Cloud Technology Club Project

AWS · S3 · Lambda · Bedrock · API Gateway

Minicomputer Project

Linux · Hardware · System Configuration

Leadership and Involvement

Providence Alumnae Association — Public Relations Chair

NVC AI & Cloud Technology Club — Member