

Jaelyn Cuellar

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EDUCATION

Duke University, B.S. in Computer Science (AI & ML), Minor in Neuroscience

May 2025

Durham, NC — GPA: 3.4 — Questbridge, Hispanic Scholar

CodePath

Technical Interview Prep Course; WebDev101, iOS101

Summer 2023, Summer 2025

SKILLS

Languages: Python, Java, JavaScript, Swift, SQL

Machine Learning & Computer Vision: TensorFlow, Keras, OpenCV, Streamlit, Deep Learning, CNNs, Real-Time Inference

Web, Databases & APIs: HTML, CSS, React, Tailwind CSS, Node.js, Express, PostgreSQL, SQLite, RESTful APIs

Cloud, Dev Tools & Concepts: Git, GitHub, Postman, VS Code, Xcode, Cloud Computing, AWS, Distributed Systems, MVC Architecture, OOP, Data Structures & Algorithms, Testing

PROJECTS

Real-Time Emotion Detector (Python, OpenCV, TensorFlow, Streamlit)

January 2026 - Present

- Building a real-time facial emotion recognition system leveraging deep learning and computer vision techniques.
- Designing an OpenCV-based webcam pipeline for face detection and preprocessing, enabling low-latency real-time inference.
- Training a convolutional neural network in TensorFlow and deploying live emotion predictions through an interactive Streamlit application.

CareConnect Web Platform (React, Tailwind, Node.js, Express, PostgreSQL)

November 2025 - Present

- Designed and implemented a full-stack content management platform with a RESTful Node.js/Express backend and React frontend for managing staff, attendance, care plans, and tasks.
- Built 10+ RESTful endpoints using layered architecture (routers, controllers, services); designed relational PostgreSQL schemas supporting CRUD operations, validation, and error handling.

Event Website Template - Full-Stack (Node.js, Express, SQLite, HTML/CSS/JS)

Fall 2025

- Built a configurable web application generating dynamic content from a centralized configuration file, enabling reusable content management without manual HTML edits.
- Implemented a REST API and auto-initializing SQLite database to support RSVP workflows, persistent storage, and scalable deployment across events.

CareConnect Mobile - iOS Staff App (Swift, UIKit)

Fall 2025

- Developed an iOS staff application supporting structured data entry, image upload, and reporting workflows designed for future web-based backend integration.
- Defined modular features and user stories aligned with a multi-platform system architecture.

Dream Theme Analyzer (Python, NLP, Transformers, BERTopic)

Spring 2025

- Built a scalable data-processing pipeline analyzing 23k+ text records using transformer embeddings and BERTopic to extract thematic clusters.
- Developed modular, reproducible Python components for preprocessing, model inference, and evaluation metrics, supporting experimentation on large datasets.

EXPERIENCE

Technical Project Coordinator – Code Plus

Durham, NC / Summer 2024

- Led and supported 6 Agile project teams developing web, AI, and data-driven applications, coordinating milestones, requirements, and deliverables.
- Worked closely with developers and stakeholders to manage evolving project scopes within shared repositories and workflows.

Software Engineer – Code Plus

Durham, NC / Summer 2023

- Collaborated with stakeholders to identify optimal Spot Instances for research needs and built a cloud-based AWS/Azure tool to retrieve, process, and visualize pricing data, including an interactive dashboard.
- Implemented secure API integrations and configured AWS IAM for permissions, contributing to a multi-module codebase in an Agile workflow, with visually impactful charts enhancing data comprehension.

Undergraduate Teacher's Assistant – Duke University

Durham, NC / Spring 2023

- Supported 100+ students through algorithm explanations and debugging assistance in Python-based coursework.
- Co-led weekly lab sessions reinforcing structured programming and problem-solving fundamentals.

LEADERSHIP

Co-President – Society of Hispanic Professional Engineers

Duke University / 2024 – 2025

- Co-led planning and execution of 20+ events, delivering resume, interview, and networking workshops for 100+ students.
- Built 20+ industry partnerships, increasing chapter funding by 50% and expanding organizational reach.