

Mario Nolasco Cortez

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EDUCATION

University of North Texas, Denton, TX

Dec. 2026

Bachelor of Science in Computer Science, Minor in Mathematics

- **GPA:** 3.2
- **Relevant Coursework:** Internet Programming, Software Engineering, Data Structures & Algorithms, Foundations of Data Structures, Algorithms, Intro to AI, Probability Models, & Linear Algebra

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Python, SQL, C, & C++

Tools: Git, GitHub, Jira, & Microsoft Office

Frameworks/Libraries: Django, Flask, NumPy, Pandas, & Matplotlib

EXPERIENCE

University of North Texas, Denton, TX

Aug. 2024 - Present

Supplementary Instructor for CSCE 1030 (Computer Science I)

- Plan supplementary sessions tailored to VARK learning styles (Visual, Auditory, Reading, & Kinesthetic), ensuring diverse approaches to meet students' individual learning preferences
- Facilitate three weekly interactive sessions to reinforce course material and clarify complex concepts in C and C++

University of North Texas, Denton, TX

June 2025 – July 2025

R³Stem: STEM Education Intern

- Delivered a self-designed Python crash course to middle and high school students, covering core concepts from variables to object-oriented programming

AI4ALL Ignite, Remote

Sep. 2024 - Dec. 2024

Student Fellow

- Applied ML techniques, unsupervised and supervised learning, computer vision, and NLP to real-world problems
- Collaborated with a team to develop a computer vision model that assesses road conditions and evaluate driving safety
- Gained experience in data preparation and model evaluation using NumPy, Pandas, and Matplotlib to analyze ML performance

PROJECTS

Personal Website

June. 2025 - Present

Team Lead

- Designing and developing a personal website to showcase my portfolio, projects, technical skills, and professional experiences using HTML, CSS, & JavaScript
- Actively learning new technologies and frameworks to progressively enhance the website's functionality and design

Weather Road Safety Classifier

Sep. 2024 - Dec. 2024

Team Member

- Developed a computer vision model using PyTorch to assess road safety based on weather conditions and provide a safety score
- Collected, labeled, and preprocessed weather-related image data to train and validate the model

NextStep: Job Application Tracker

Sep. 2024 - Dec. 2024

Team Lead

- Led development of a Flask-based web application to track job/internship applications, contributing to both front-end design and back-end implementation
- Collaborated with a team using GitHub and Jira, gaining experience with Scrum methodologies, version control, and team-based development workflows