

Kevin Amador Ayala Vilchis

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EDUCATION

The University of Texas at El Paso

BS in Computer Science & Minor Mathematics

Expected Graduation: 05/2028

GPA: 3.72/4.0

Awards: Fall 2023 – Spring 2025 Engineering Dean's List, NSF S-STEM 2025 Scholar

Related Coursework: Data Structures, Probability & Statistics, Discrete Structures I & II

PROJECTS

Software-Powered Predictive Analytics for Complex Data – GMIS Convention (Python, Pandas) 10/2025

- Developed predictive models using software engineering principles and data science techniques to analyze historical datasets and forecast future trends, reducing prediction time by 20%.
- Implemented automated workflows for data preprocessing, feature selection, and model evaluation to ensure accurate and efficient predictions.

Personal Website Portfolio (CSS, JavaScript, HTML) 07/2025

- Built a responsive portfolio website using HTML, CSS, and JavaScript, featuring projects and contact information
- Implemented a custom JavaScript MP3 player with audio controls (play, pause, skip, volume, seek) and a responsive CSS interface featuring animations.

CERTIFICATIONS

IBM – What is Data Science? 08/2025

- Gained foundational knowledge of data science concepts: Big Data, Data Mining, Deep Learning and Neural Networks
- Acquired practical understanding of data science roles, tools, and industry use cases, strengthening analytical and problem-solving skills.

IBM – Tools for Data Science 09/2025

- Gained hands-on experience with key data science tools, including Jupyter Notebooks, Jupyter Lab, and RStudio, for data analysis and visualization.
- Developed proficiency in using GitHub, Jupyter Lab to support data-driven workflows and collaboration.

WORK EXPERIENCE

Department of Computer Science Undergrad Assistant I, Technician 01/2024 – 05/2025

- Solved 50+ monthly technical support requests, reducing resolution time by 30% and improving overall satisfaction of staff and students
- Redesigned and optimized departmental websites using Cascade CMS and HTML5, improving site usability and reducing navigation issues by 40%
- Maintained 60+ departmental devices and delivered effective solutions, decreasing class disruptions due to tech failures by 25%

Production Assistant Internship, ABC 7, KVIA News - El Paso Texas Department 08/2024 – 12/2024

- Curated, edited, and published daily website stories, including HTML/CMS updates and layout changes, while ensuring adherence to editorial standards
- Collaborated with an audio engineering team for live broadcasts, reducing audio issues by 20%.
- Assist with video editing and review of broadcasts, contributing to a 30% increase in production of 5 broadcasts

LEADERSHIP EXPERIENCE

Web-App Development, Webmaster chair 03/2025–Present

- Spearheading the design and development of the club's new website using Cascade CMS to enhance digital presence and user experience.
- Collaborating with club officers to structure site content and align it with the organization's goals and branding.

SKILLS AND INTERESTS

- Programming Languages:* Java, Python, SQL,
- Web Developing:* HTML, JavaScript, CSS, CASCADE, React, Angular
- Libraries & Software:* Pandas, Matplotlib, Seaborn, MS Excel, Jupyter Notebooks, JupyterLab, RStudio,