

GUILLERMO JIMENEZ

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EDUCATION

Bachelor of Science in Computer Science

The University of Texas at El Paso (UTEP)

Expected: May 2027

GPA: 4.0

Related Courses: Intro to Computer Science; Elemental Data Structures and Algorithms; Calculus I; Discrete Math

Certifications: Meta Front-End Developer Professional Certificate; Harvard CS50; Intro to Generative AI, EPCF Microsoft Innovation Hub Cert.

Honors and Awards: College of Engineering Dean's List – Fall 2023 & Spring 2024

Associations: Google Developer Student Clubs; Society of Hispanic Professional Engineers; The Coding Interview Club

SKILLS

- Languages: Java, Python, JavaScript, TS, HTML/CSS
- Frameworks: MongoDB, Express, React, Node.js
- Tools: Firebase, Git, RabbitMQ, Docker, Figma, Balsamiq
- Spoken languages: English & Spanish

EXPERIENCE

Microsoft Innovation Hub

Course Teacher Assistant

El Paso, TX

August 2024

- Guided 7 college students in developing a **production-ready web app** using the **MERN** stack to ensure a **RESTful API design** and a **scalable database** architecture. Utilized standard extensions/libraries such as **Thunderclient** and **Playwright** to ensure **TDD** practices, leading to a **30% faster development cycle** and a **50% increase in code quality** and **app performance**.
- Facilitated professional development sessions in **Agile and Scrum** frameworks and **design** thinking methodologies, resulting in a **60% improvement in team collaboration and productivity** among students.

Dell Technologies

Dell Tech Academy Cohort Participant

El Paso, TX

January 2024 – March 2024

- Created a **PowerBI dashboard** by developing Python scripts for **data visualization** and **analysis** over a case study.
- Used a large **dataset of 500,000** product sales records to extract valuable insights and conclusions from data trends and analytics.

The University of Texas At El Paso

Smart Borderland AI Hackaton

March 2024

- Collaborated with a team of 4 to implement **sentimental analysis AI** solutions at the Border between Mexico-USA, earning commendation for innovative approach and tangible impact.
- Developed a **full-stack** web application utilizing **React and Python (Flask)** to send warnings about depressive content in social media, categorizing them using our Machine Learning Model.

PROJECTS

Trada WebApp – Linear Regression ML Model | React (Vite) | Firebase | JS & HTML/CSS

January 2024

- Engineered a scalable, full-stack trading hub social media platform, achieving **sub-100ms response times** for real-time CRUD operations via **Firebase Cloud Firestore**, **OAuth**, and **Storage**, handling over **80k transactions**.
- Architected a modular React frontend with **+30 reusable components** and implemented **Context API** for state management, reducing **initial load time by 40%**.
- Deployed a **Linear Regression ML Model** for stock predictions, allowing users to post their findings on the platform with a **prediction accuracy of 70%**, increasing **user interaction by 50%**.

MoodMiner – Machine Learning SVM | Python | React | JS & HTML/CSS

April 2024

- Developed a supervised **Machine Learning** model using an **SVM classification** structure and **regression** techniques, **curating** and **vectoring** large **datasets**.
- Implemented **React** to create a front-end interface, ensuring seamless navigation and engaging user experience.
- Utilized **Python (Flask)** for the back-end infrastructure, facilitating efficient data processing, and integration with the front-end and machine learning components.

Bloomberg Tech Lab – Python | RabbitMQ | Docker

April 2024

- Collaborated with **Bloomberg** engineers to build an application using **RabbitMQ** and **Docker**. Utilized **Python** to implement a **queue** system, enhancing **real-time** data processing and communication between **producer** and **consumer** components.

LEADERSHIP

Google Developer Student Club

Vice President Of Operations

El Paso, TX

January 2024 – Current

- **Led** a team of 10 for the organization of more than **20 events**, delegating tasks for budgeting, planning, room reservation, and logistics, increasing campus student interaction by a **15%**.
- Coordinated technical workshops for **100+ CS college students** in diverse technologies for front-end, back-end, cloud, and machine learning development.
- Participated in the annual **El Paso Science Festival** to engage over **300 students, ranging ages of 4 to 20**, in an interactive tabling event focused on instructing core **computer science concepts** including programming logic, front-end, back-end, and AI.

The Coding Interview Club

Active Member

El Paso, TX

August 2023 – Current

- Participated in an organization of 30+ CS students in order to solve Leetcode and HackerRank problems in **Data Structures and Algorithms**.
- Presented complex coding solutions during club meetings, explaining fundamental CS concepts such as **time complexity**, **space complexity**, and **algorithmic paradigms**.