

Emmanuel Barraza

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EDUCATION

University of Texas at El Paso

Bachelor of Science in Computer Science & Minor in Mathematics

Anticipated: May 2027

GPA: 3.95

Relevant courses: Intro to Computer Science, Calculus I-III, Discrete Structures, Data Structures and Algorithms, Adv. Object-Oriented Programming, Automata, Database Systems

Honors and Awards: College of Engineering Dean's List Fall 2023 – Fall 2025

SKILLS

- **Languages:** Java, Python, JavaScript, C, C#
- **Technologies & Tools:** React.js, SupaBase, TailwindCSS, GIT/GitHub, HTML/CSS

PROJECTS

Maze Navigator

April 2024

- Developed a text-based multi-level maze game in **Java**, by reading a text file using a scanner within a while loop displaying the level of the game.
- Implemented the player key inputs to move by using **if statements** to detect how to move allowing the current player position to move.

Wordle Game

May 2024

- Developed a Wordle game in **Java**, using **classes and objects** to detect if the user's answer is correct on a dictionary text file.
- Created a method that checks every character of the user's answer word by using **for loop** and **if statements** giving back a different color for every character.
- Implemented a way to keep track of the number of guesses by storing the score within a **private attribute** providing a score to the user.

Speed Essentials

Feb 2024

- Developed an optimized web page that replaces animated GIFs with a **video** within **HTML**, **reducing memory consumption**.
- Implemented a file upload feature using an input element in **HTML** which goes on to **display media file sizes**.
- Designed a user interface style using **CSS**, improving readability and user engagement.
- Created a feature that **evaluates file size** within **JavaScript**, giving quality feedback on uploaded files.

EXPERIENCE

CodePath | Tech Exchange Program (CTEx)

Remote | Jan 2026 - present

- Participating in a semester fellowship solving algorithmic challenges in Python, focused on **algorithms** and **System Design concepts** with **AI-powered software solutions**.
- Collaborating in weekly session with engineers across the nation, enhancing technical communication and programming skills.

Google Developer Groups Mentorship Program | Mentee

El Paso, TX | Sep - Dec 2025

- Received personal mentorship during a **12-week program**, enhancing technical expertise and career development.
- Strengthened **fundamentals in software engineering** & professional skills through guided learning lessons.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

AI Group Hackathon

Oct 2025

- Collaborated with a 4-person team to develop a gamified financial literacy website that teaches investing and saving through interactive challenges, contributing to feature planning and UX improvements.
- Developed key features using **React**, **Supabase**, and **LangChain**, implementing user authentication and a market simulation system. Used LangChain on the backend to create dynamic market behavior, enhancing the learning and engagement experience.

Google Developer Student Club

Jan 2024 - present

- Strengthen technical skills in **HTML**, **CSS**, and **JavaScript** by actively participating in workshops, coding sessions, and hands-on group projects.
- Collaborate with peers in every meeting to share knowledge, solve problems, and build a professional network with fellow aspiring developers.

Free and Open-Source Software Club (FOSS)

Sep 2024 - present

- Contribute to **open-source** projects and practice version control with **Git**, applying industry-standard workflows for collaborative coding.
- Explore and learn diverse open-source technologies while collaborating with peers to share knowledge, improve technical skills, and engage in real-world problem-solving.