

Karla Itzel Zamora

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EDUCATION

University of Texas Rio Grande Valley

Bachelors of Science, Computer Engineering | GPA: 3.87 | Magna Cum Laude

Dean's List since 2020 | Tau Beta Pi Engineering member | **Activities-** IEEE, Frontera Devs, SHPE

Relevant Coursework: Database design, Data structures and Algorithms, Software Engineering, Web Development.

May, 2024
Edinburg, TX

WORK EXPERIENCE

Data Structures and Algorithms Peer Tutor, SHPE

Jan 2023 - Present

- Continuously engaged in registration incentives that led to over 50% increase in student participation.
- Held class-wide lectures and review sessions with increasing student enthusiasm.
- Led the expansion of the tutoring website by feature contribution and beta testing to set a precedent for future tutors.
- Provided one-on-one academic support to students, which improved their critical thinking and problem-solving abilities.

SKILLS & INTERESTS

- **Programming Skills:** C/C++, Java, Javascript, C#, HTML/CSS, Express.js, React, SQLite, Python, Rust, Flutter, Unity
- **Professional Skills:** Agile methodology, Fast learner, strategic planning, time management, collaborative work, customer service
- **Other Skills:** Fluent in Spanish (Native Speaker), Excel, Jira
- **Interests:** research subject (Prolific), learning piano, custom mechanical keyboards, traditional and digital art

PROJECTS

Whiteboard Eraser Bot

Spring 2024

- Team-developed autonomous robot that sticks to a whiteboard and erases ink efficiently using a path-finding algorithm with writing detection.
- Programmed with an ESP32 microcontroller and wavelength sensors. A cross-platform mobile application to control certain settings for the robot developed in Flutter.

Meal Mapper Recipe App

Spring 2023

- Desktop application based on Javafx that allows users to find recipes based on specific ingredient keywords and displays the recipe based on a URL database.
- Project mainly served as UI/UX and database implementation practice.

OTHER ACTIVITIES

uTest

Feb 2023 - Present

Software Tester

Remote

- Engaged as a Software Product Tester, actively participating in the evaluation of new applications across diverse industries, providing valuable feedback on bugs and areas for improvement prior to market release.

Palm Valley Animal Center

Nov 2023

Cleaning volunteer

Edinburg, TX

- Looking after our animal's well-being and mental stimulation, as well as providing a clean environment for them.
- In charge of the physical activities and washing of five dogs, as well as sweeping, moping, and collecting trash.

Keep America Beautiful, Inc

Sep 2023

Street garbage collection

McAllen, TX

- Met at the municipal park where the event took place; we were assigned a specific area for each student (cleaned around 2 miles each), and walked back to dispose of our bags properly. Separated potential recyclable items.