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BETZA AVALOS

Software Engineer

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LinkedIn Profile

Master's Degree in Software Engineering

- The University of Texas at El Paso – Graduated December 2025

GPA: 3.80/4.00

Bachelor of Science in Computer Science

- The University of Texas at El Paso – Graduated May 2022
Minor in Math

GPA: 3.44/4.00

EXPERIENCE

• Research Assistant at UTEP - PsyberSecurity Lab

September 2024 – December 2025

- Improve and develop tools for data collection that will be used to develop analytical research papers.
- Research and work with LLMs to develop models that will improve detection of phishing emails to create tools that will help with the investigation of human analysis.
- Manager tasks to maintain an order within the lab by creating a lab manual, update constantly the calendar for lab members, schedule meetings, and development of the lab webpage.

• March 2023 – July 2024 Additional Work Experience

- Learning new programming languages/technologies and working in small projects for a Church.
- Worked multiple jobs while in the search.

• Associate Professional Application Designer – Gainwell Technologies

August 2022 – February 2023

- Performance Testing to the ongoing developed applications to detect any errors within the app or the database. Found some issues within the database.
- Load Testing to analyze the traffic load the application could handle. Worked many times with previously recorded scripts to update them to the newest application.
- Frequently asked and provided for feedback from supervisors and peers to try to improve the recording process.

Projects

- Hard Drive Tracking System (Software Engineering)

- Developed a full-stack inventory management system for hard drives as part of a two-semester agile software development team.
- Designed and implemented the front-end and back-end using HTML, CSS, JavaScript, PHP, and a MySQL database.
- Led design, development, debugging, and documentation for key project features, applying principles of the software development lifecycle.

- MSP430 (Computer Architecture)

- Programmed a functional game for a device MSP430 microcontroller using C Programming over a five-month semester.
- Engineered the integration of a small LED screen, buttons, and a speaker-like add-on, with development conducted in a Linux/emacs environment via VMware

- Church Group Matching app

- Individually developed a full-stack web application to match users with compatible church groups.
- Built the application using HTML, CSS, JavaScript, and PHP, integrating APIs for user data storage and automated text message delivery

- Phishing Email Classification Tool

- Developed a phishing email classification tool in a team environment. My role included designing an interactive email simulation to collect user-driven data and refining the tool based on project requirements.

- School Emoji Map App

- Developed a mobile application with Dart and Flutter that allows users to place a location-based emoji on a map.
- Integrated Google APIs for user accounts and geographic data such as Google Maps.

Skills

○ Programming Skills

• Languages:

Python, Java, C, PHP, MySQL, HTML, CSS, JavaScript, Dart

• Frameworks and Libraries:

Bootstrap, React, Flutter