

Jose Guerrero

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EDUCATION

University of Texas at San Antonio

Bachelor of Science in Computer Science

San Antonio, TX

Aug. 2020 – Dec. 2024

EXPERIENCE

Graduate Studies Assistant

UTSA

Fall 2022 – Spring 2023

San Antonio, TX

- Automated Data Entry Process - Designed and built a program to automate data entry into spreadsheets, cutting down manual work and minimizing errors. This saved time and improved accuracy, boosting efficiency.
- Maintained and organized graduate student records, ensuring data accuracy and confidentiality.
- Provided technical support to staff and faculty, resolving issues related to software applications and office equipment.

PROJECTS

Tech Assure | MERN Stack (MongoDB, Express, React, Node.js)

Aug. 2024 – Dec. 2024

- Collaborated with six group members to develop a mock e-commerce electronics store for a User Interfaces course project.
- Designed and implemented a responsive front-end using React and Tailwind CSS.
- Developed back-end RESTful APIs with Node.js and Express for managing products and user accounts.
- Utilized MongoDB for secure storage of customer and product data.

Cloud Migration Plan | Technical Documentation

Aug. 2024 – Dec. 2024

- Co-created a 20-page cloud migration strategy for transitioning proprietary hardware to the cloud.
- Evaluated costs, scalability, and security, delivering a comprehensive proposal to stakeholders.
- Recommended AWS solutions to ensure smooth migration and improved operational efficiency.

Clothing Co Database Management System | MySQL

Aug. 2024 – Dec. 2024

- Developed a MySQL relational database for efficient management of a clothing company's operations.
- Designed schemas to optimize inventory tracking, sales reporting, and customer data management.
- Created detailed documentation and SQL queries to ensure long-term maintainability.

Runner Bay | MySQL, Express, React, Node.js Bootstrap

Jan. 2024 – May. 2024

- Developed a full-stack web application using Node.js to serve a REST API with a React and Bootstrap front-end.
- Collaborated with three students practicing Agile and Scrum for iterative development and continuous feedback.
- Implemented user authentication and authorization features using JWT (JSON Web Tokens).
- Designed a responsive user interface ensuring accessibility and cross-browser compatibility.
- Deployed the application on AWS, using EC2 instances and S3 for storage.

Client-Server User Credential Verification | C

Jan. 2024 – May. 2024

- Developed a client-server application to verify user credentials against a list of breached credentials.
- Implemented SHA-256 hashing to ensure the privacy of user data during the verification process.
- Designed the server to efficiently handle multiple client requests simultaneously.
- Conducted security analysis to ensure the robustness of the verification process against potential attacks.

TECHNICAL SKILLS

Languages: Java, Python, C, C#, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Express.js, Bootstrap, Tailwind, Spring Boot, Django

Developer Tools: Git, Docker, Nginx, VS Code, Eclipse

Libraries: pandas, NumPy, Matplotlib

Databases: MySQL, MongoDB

Cloud Services: AWS (EC2, S3, Lambda)