

NATHAN CHAVEZ

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SKILLS

Programming Languages:

C | C++ | C# | Java | Python | JavaScript | PHP

Technologies:

HTML | CSS | MySQL | React.js | Node.js | jQuery | AWS | Azure | Git | Bash | Unity | .NET | Bootstrap | cloud Computing | Microservices | Docker

EDUCATION

The University of Texas at San Antonio

January 2020 – August 2023

Bachelor of Science, Computer Science – Concentration in Software Engineering

RELEVANT PROJECTS

Equipment Management API | Spring 2023 | (PHP, HTML)

- Led an implementation of a RESTful API using an AWS EC2 server and deployed phpMyAdmin for efficient database management, optimizing storage capacity for equipment data
- Designed a robust database schema with primary and foreign keys, reducing data size by 50%
- Utilized parallel computing techniques with PHP scripts to reduce insertion time from 8 hours to 2 hours for over 5 million records.
- Developed web endpoints for efficient data searches based on equipment type, manufacturer, and serial number, reducing search time by an average of 14 seconds
- Integrated web endpoints into functional API endpoints, following RESTful principles, ensuring integration with other systems

Portfolio Webpage | Spring 2023 | (PHP, JavaScript, jQuery)

- Led the full-stack development of a portfolio website on an AWS EC2 server with phpMyAdmin for database management
- Implemented both frontend and backend components, including UI design and database interaction, ensuring seamless functionality and user experience.
- Improved user experience by utilizing a bootstrap template for enhanced UI for visual appeal
- Developed a contact page with input validation for secure contact information submission
- Utilized PHP to interact with the database, ensuring data security
- Incorporated jQuery for real-time updates of the contact information table without manual refresh