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(512) 828-2658

JOHN MEJIA
SOFTWARE ENGINEER

PROFESSIONAL SUMMARY

Software Engineer skilled in both software development and hardware integration. Demonstrated proficiency in programming languages including Python, JavaScript, and C++, complemented by hands-on experience in circuit board programming and test bench creation. Utilizes a blend of front-end and back-end tools, such as React and MongoDB, to enhance product functionality and user experience, ensuring robust, scalable solutions in technology projects.

SKILLS

Languages: English, Spanish

Coding Languages: Python, JavaScript, HTML, CSS, Java, C, C++, Assembly

Front End Tools: React, React Native, Expo, Android Studio

Back End Tools: MongoDB, AWS S3, DynamoDB, Python Flask

Hardware: Circuit Design, Circuit Board Programming, Test Bench Creation, Soldering, Splicing

Version Control: VSCode, Git, Agile/Scrum Methodology

EMPLOYMENT HISTORY

JAN 2023 - AUG 2023
Controls Systems Co-op Engineer, Trane Technologies, Tyler, Tx

- Built and wired test fixtures for Furnace and Controls testing, highlighting technical skills and attention to detail
- Accessed code database to develop firmware controls testing using Eclipse, displaying proficiency in software development and programming
- Developed firmware utilizing Modbus protocol to enable information transfer between control boards, resulting in significant time savings for system testing
- Designed and developed a gas valve test stand for evaluating flow rate and velocity measurements from various gas valve suppliers, resulting in increased quality control and improved efficiency, ultimately saving the company time and resources
- Served as a technical project lead, orchestrating meetings and leading an IDR 3.0 presentation that contributed to a successful product launch. Developed and wired test fixtures for Furnace and Controls testing, highlighting technical skills and attention to detail

EDUCATION

AUG 2020 - MAY 2024
Bacherlor's Degree in Electrical and Computer Engineering, The University of Texas At Austin, Austin, Tx

Field of Study: Software Engineering - 3.73 GPA

PROJECTS

Kickoff Connect: Play Nearby
CAPSTONE FULL STACK APP DEVELOPER

- Led the development of a multi-sport pickup app using React Native, Expo, and Google Maps API
- Responsible for designing, creating, developing, and testing the front end of the app
- Utilized Amazon S3 for storing posts and profile pictures, and managed user and event information with DynamoDB
- Collaborated with a cross-functional team of students and mentors to implement features and ensure seamless integration of front end with backend systems

Resource Management Website
BACK END DEVELOPER

- Led the development of the back end for a resource management website, utilizing Python Flask for server-side logic
- Implemented robust MongoDB database management, ensuring efficient storage and retrieval of resources
- Collaborated seamlessly with front-end developers to integrate the back-end functionalities, creating a cohesive and responsive user experience.
- Successfully deployed the website on Heroku, overseeing the entire back-end infrastructure

Weather App
SOFTWARE DESIGN AND IMPLEMENTATION COURSE PROJECT

- Developed a weather app using Android Studio and Java, parsing JSON data from APIs for real-time weather information retrieval
- Implemented location-based forecasting functionality to provide users with accurate weather updates based on their current location
- Designed an intuitive user interface with interactive elements, ensuring a seamless and engaging experience for app users