MARIO HERNANDEZ

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Technical Skills

Programming Languages: C++, C, Python, JavaScript, HTML/CSS, SQL
Web Development: React, Node.js, Bootstrap, Responsive Design, REST APIs, Accessibility (WCAG)
Databases & Cloud: MySQL, MonoDB, Database Design, AWS (RDS/PostgreSQL), Data Structures & Algorithms
AI & Automation: OpenAI API, Natural Language Processing (NLP), Task Automation, Multi-Language Support
Tools & Platforms: Git, GitHub, VS Code, Docker, Postman, IntelliJ
Methodologies: Object-Oriented Programming (OOP), Test-Driven Development (TDD), Agile/Scrum, CI/CD
Additional: Bilingual (English/Spanish), Collaborative Problem Solving, Public Speaking

Education

University of Colorado Boulder   **January 2023 – May 2026**
Bachelor of Arts in Computer Science, Minor in Business   *Boulder, Colorado*

Front Range Community College   **August 2019 – December 2022**
Associate of Science   *Longmont, Colorado*

Experience

Technical & Operations Assistant   **January 2024 – Present**
Hernandez Landscaping   *Longmont, Colorado*

- Coordinated daily operations, scheduling, and client communication for residential and commercial services.
- Led customer outreach, follow-ups, and service proposals, contributing to repeat business and improved client satisfaction.

Server   **January 2023 – September 2023**
Georgia Boys BBQ   *Longmont, Colorado*

- Delivered excellent customer service in a fast-paced environment, resolving issues quickly to maintain client satisfaction.
- Balanced multiple responsibilities (seating, reservations, inquiries), demonstrating time management and teamwork.

Projects

AI Accessibility Web App

Built a full-stack web app to simplify digital tasks for non-technical users.

- Implemented AI-driven task guidance (visual + voice), multi-language support (7 languages), and personalized task saving.
- Enhanced digital accessibility with large-text mode, simple UI, and internationalization.
- Tech stack: JavaScript, React, Node.js, Express, MongoDB, OpenAI API.

Playlist-Based Social Music App

Developed a full-stack web application to connect Spotify users by matching playlists based on mood and audio features.

- Integrated Spotify API for authentication, data retrieval, and personalized mood-based recommendations.
- Implemented custom mood-matching algorithm to improve recommendation accuracy.
- Built a responsive UI with HTML, CSS, and Bootstrap, aligned with wireframes for consistency.
- Collaborated using Git/GitHub, resolving merge conflicts and ensuring on-time delivery.

Database Migration & Data Structure Design for Social Media Platform

Redesigned and optimized relational database schema to improve query efficiency and scalability.

- Implemented a custom hash table with chaining and binary search tree (BST) for post management in C++.
- Developed recursive BST functions to organize posts chronologically, reducing retrieval time.
- Improved overall data access performance and reliability for large user datasets.

Web Development Projects - Personal & Client Website

Designed and deployed a personal portfolio website to showcase projects and resume using HTML, CSS, Bootstrap, and responsive design principles.

- Developed and launched a business website for landscaping services, enabling client outreach and digital presence.
- Applied adaptive styling for cross-platform accessibility (desktop/mobile) and optimized user navigation.
- Deployed to hosting platform (e.g., GitHub Pages/Netlify), ensuring continuous availability.