

MANUEL ALEJANDRO RODRIGUEZ

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EDUCATION

The University of Texas at San Antonio

August 2020 – December 2022

Bachelor of Science in Computer Science - Concentration in Software Engineering

- **Coursework:** Cloud Development, Machine Learning and Artificial Intelligence, Data Science, Software Engineering

EXPERIENCE

Software Engineer, 90 Degree Benefits Health Insurance, San Antonio Texas, Hybrid

May 2023 – December 2024

- Led end-to-end development of internal tools, automating reporting and enhancing user experience.
- Maintained secure Python-based APIs for regulatory compliance and efficient data access.
- Orchestrated frontend/backend updates, ensuring 99.99% system availability across public and internal web properties.
- Automated data workflows and transformed datasets using SQL, improving data integrity and access for stakeholders.

Cloud Administration Teaching Assistant, Codeup, San Antonio Texas

January 2023 – May 2023

- Provided one-on-one and group coaching to students pursuing AWS Cloud certifications.
- Enhanced instructors effectiveness with grading, GitHub activity reviews, and system access logs.
- Delivered workshops and tracked student progress, improving graduation and certification rates.
- Designed a post-bootcamp technical curriculum to upskill students in refining and applying AWS skills and curriculum.

Software Engineer, AXRZ, Hybrid

Current

- Developed and deployed custom full-stack applications, and websites for small businesses and non-profits using React, Node.js, and Python.
- Integrated SEO strategies and third-party APIs to improve traffic and engagement.
- Built e-commerce platforms with Shopify & CMS-based solutions (WordPress) with tailored UX/UI components.
- Managed all aspects of project lifecycle: client communication, requirements gathering, budgeting, deployment.
- Displayed problem-solving, time management, and communication skills developed through running an independent development business.

PROJECTS

Call Recording Database Integration – Python, Dubber API, PostgreSQL

- Built a backend system integrated with Dubber's cloud-based call recording API to automatically fetch, parse, and store call metadata and recordings into a PostgreSQL database.
- Implemented error handling, token-based authentication, and data normalization for reliable and compliant data ingestion.
- Enhanced call lookup and analysis by building a modular architecture allowing integration with future voice analytics tools.

Indie Game Development Project – Unity, C#

- Designing and developing a 3D indie game using the Unity game engine with C#, focusing on gameplay mechanics, level design, and player interaction systems.
- Integrated physics-based interactions, scripted NPC behavior, and implemented a modular inventory and quest system.
- Cooperating with peers, artists and sound designers using Blender for 3D assets and FMOD for adaptive sound design.

Client Portfolio Websites – HTML/CSS, JavaScript, WordPress

- Designed and deployed custom websites for small businesses and professionals with a focus on clean UX/UI and responsive design.
- Delivered SEO-optimized, mobile-first builds using WordPress, Bootstrap, or custom stacks depending on client needs.
- Ensured sites were scalable, accessible, and easy to update by clients via CMS admin panels or documentation.

TECHNICAL SKILLS

- **Languages:** HTML, CSS, JavaScript, Python, .NET, Java, C#, Bash, SQL
- **Frameworks/Libraries:** React, Node.js, Express, Apache Hop, Apache Spark, Bootstrap
- **Cloud & DevOps:** AWS (EC2, S3, IAM), Azure, Docker, Git, CI/CD, Cron
- **Databases:** PostgreSQL, MySQL, Mongo DB, SSMS
- **CMS & Tools:** WordPress, Shopify, Postman, GitHub, Active Directory, Pentaho, Unity
- **Soft Skills:** Client Engagement, Cross-functional Collaboration, Agile, Public Speaking, Bilingual in Spanish

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**
- **Lenovo On-Site Field Service Technician Certification**
- **Dell Service Technician Certification**

BOARD & ADVISORY ROLES

Founding Board Member - VolunteerSA

January 2025- Current

- Served as a founding member, advising on nonprofit's **technology infrastructure**, digital presence, and IT strategy.
- Implemented foundational tools including email systems, data management platforms, and website architecture to ensure operational scalability.
- Provided guidance on cybersecurity best practices and IT compliance to donor and member data protection.
- Collaborated with other board members to align tech strategy with the organization's mission and growth goals.

Capstone Project Chair Board Member - New Leaders Council

June 2024- Current

- Guided fellows through a full project lifecycle—from ideation and planning to execution and final presentations.
- Provided structured feedback on timeline management, scope definition, team roles, and deliverable milestones.
- Facilitated regular check-ins and progress reviews to keep projects aligned with academic and stakeholder expectations.
- Mentored fellows on collaboration, communication, and presentation skills, preparing for real-world client and team environments.

Student Body President & Vice-President - El Paso Community College

June 2018- January 2021

- Elected to lead the student body across multiple campuses, overseeing a \$450,000 annual budget to programs, services, and advocacy initiatives.
- Spearheaded major campus initiatives including creation of a student food pantry, hosting civic engagement events, and organizing a fundraiser that raised \$10,000 for a local children's hospital.
- Advocated for institutional changes including increased funding for child care services, installation of privacy rooms for parents, and campus sustainability efforts.
- Formally recognized by 86th and 87th Texas House of Representatives for legislative advocacy and leadership in student health, access, and equity. Resolutions 1228 and 1229 respectively.