CARLOS ZAMBRANA

Senior Lead Software Engineer

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with **10+ years of experience** architecting and scaling revenue-critical enterprise applications. Expert in modernizing legacy systems and building custom ERP/CRM solutions for **Workforce Management and Financial Operations**. Specialized in translating complex business logic (payroll, commissions, staffing compliance) into robust, user-friendly software using Laravel, Python, and AWS.

TECHNICAL SKILLS

- **Backend Architecture:** PHP (Laravel), Python (Django, Flask), Node.js, SQL (MySQL, PostgreSQL).
- **Frontend Development:** Vue.js, React, JavaScript (ES6+), Tailwind CSS, jQuery (Legacy migration).
- **Cloud & DevOps:** AWS (EC2, Lambda, S3, RDS), Docker, CI/CD Pipelines, Linux Sysadmin.
- **Tools & Integrations:** Git, Slack API, Stripe Integration, Puppeteer (Automation).

PROFESSIONAL EXPERIENCE

MNA HEALTHCARE   Remote
Lead Software Engineer   *Oct 2021 – Present*

Serves as the primary engineer for a US-based healthcare staffing agency, owning the development of "Pulse," a proprietary ERP handling nurse onboarding, compliance, and payroll.

- **Strategic Legacy Modernization:** Spearheaded the complete re-platforming of the company's core legacy application (Pulse v2). Successfully migrated a fragile, unstructured jQuery codebase into a scalable, modular architecture. Redesigned the database schema to eliminate technical debt, transforming an unstable internal tool into an enterprise-grade ERP.
- **Business Automation:** Engineered complex financial modules to handle bi-weekly payroll processing, commission calculations, and automated invoicing, directly supporting the company's revenue cycle.
- **Process Optimization:** Developed custom Node.js/Puppeteer scrapers to automate candidate sourcing from external job boards, reducing manual data entry hours by **40%+**.
- **Integration Ecosystem:** Built seamless integrations between the internal ERP, WordPress marketing site, and third-party APIs (Zoom, SMS gateways) to create a unified hiring workflow.

NICASOURCE   Remote
Team Lead / Senior Software Engineer   *Sep 2020 – Jun 2022*

- **Product Delivery:** Led a development team in the delivery of a custom Learning Management System (LMS) for a major US client using Django and React.
- **Architecture:** Architected a headless CMS solution using Laravel Nova, decoupling the backend to support multiple frontend consumer applications.
- **Cloud Infrastructure:** Optimized cloud infrastructure by implementing AWS Lambda and SES for serverless background processing (e.g., food order notifications via Slack).
- **Mentorship:** Mentored junior developers, conducting code reviews and enforcing best practices to ensure high-quality delivery.

NUMU DIGITAL   Hybrid
Full Stack Developer   *Jun 2019 – Sep 2021*

- Developed cross-platform mobile and web applications for NGO clients using Laravel and the Ionic Framework.
- Customized high-traffic WordPress/WooCommerce platforms, developing custom plugins to meet specific e-commerce business requirements.

EDUCATION & CERTIFICATIONS

National University of Engineering (UNI)   Managua, Nicaragua
Bachelor of Science in Computer Engineering   2009 – 2015

Certifications:
- **AWS Certified Developer Associate** (In Progress)
- **Meta Back-End Developer Professional Certificate** (Coursera, 2024)