

Juan Ramirez

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Professional Summary

A highly motivated technology professional with multi-cloud experience (AWS, Google Cloud) and a strong foundation in architectural principles for designing robust systems. Seeking to leverage a broad technical skill set to build scalable and resilient technology solutions.

Certifications

- **AWS Certified Cloud Practitioner**
- **Studied For:** CompTIA (ITF+, A+, Network+, Security+, Linux+, CySA+, PenTest+, Cloud+), AWS AI Practitioner, Azure Fundamentals, AWS Certified Solutions Architect - Associate, Google Cloud Engineer Associate, OCI Foundations Associate

Professional Experience

Freelance Web Developer

Shopify Headless Project, Houston, TX

June 2025 - Present

- **Custom Headless Storefront:**
 - Architected and developed a custom headless e-commerce storefront, integrating Shopify's Storefront and Customer Account GraphQL APIs.
 - Implemented a modern, passwordless authentication system using Shopify Magic Links, managing the secure TLS callback flow for local (ngrok) and production (Vercel) environments.
 - Deliberately architected the storefront to operate without a customer database, simplifying operations and eliminating PCI DSS compliance scope.
- **Custom Admin Panel & AI Content Pipeline:**
 - Built a dedicated admin panel for product management, accessible via a secure subdomain (admin.website.com) by configuring DNS records.
 - Engineered a multi-modal AI content pipeline using the Genkit framework, leveraging Gemini 2.5 Pro for generating unique, persona-driven descriptions and the Gemini 2.5 Flash Image model for creating professional product photography.
 - Integrated the Shopify Admin GraphQL API to allow real-time product and inventory updates from the custom panel.
 - Utilized Google Cloud Storage for scalable management of application assets, including AI-generated content engineered with archetypal psychology.

Tier 3 Technician (out of 6 Tiers)

CSAT Solutions (Lenovo Authorized Service Repair Center), Houston, TX

Jan 2022 - Aug 2024

- Diagnosed and performed component-level hardware repairs on a high volume of

- Chromebooks within a fast-paced, authorized service center.
- Promoted to a Tier 3 technician role based on demonstrated expertise in complex troubleshooting and efficient problem resolution.
 - Specialized in identifying and resolving intricate hardware and software issues to meet and exceed service level agreements.

Projects

WeatherWise AI - Architectural Refactoring Case Study

- Critically analyzed an initial microservice architecture, identifying that the distributed nature introduced unnecessary network latency and operational complexity for the project's scale.
- Re-architected the application into a well-structured monolithic service to improve performance, reduce complexity, and streamline the deployment process.
- Implemented a clean, internal service layer using the Facade pattern and Dependency Injection, enabling a comprehensive, test-driven development approach with Jest.
- Optimized and codified the CI/CD pipeline using Google Cloud Build, removing obsolete manual scripts to ensure a repeatable and unambiguous path to production.

Technical Skills

Category	Skills
Cloud & DevOps	AWS (Well-Architected Framework, CAF), Google Cloud Storage, Azure Fundamentals, Docker, Kubernetes, Terraform (IaC), CI/CD (GitHub Actions), Agile
Programming	Python, TypeScript, C#, PHP, Ruby
Front-End	React, Next.js, HTML, CSS, Figma & UI/UX Fundamentals
AI & Machine Learning	Gemini 2.5 (Pro & Flash Image), Genkit, Amazon Bedrock, Amazon Q, Amazon Kendra, Amazon Lex, Amazon Connect, Amazon Personalize
Backend & Databases	Node.js, Django (Python), GraphQL (Apollo), Stripe API, Shopify, Supabase, MongoDB, AWS DynamoDB, Google Cloud Firestore, Relational Databases (PostgreSQL, MySQL)

Architecture & Design	Software Architecture, System Design, Design Patterns
Development Tools	Git, GitKraken, Postman, ngrok, Bash/CLI, Linux
Security & Analysis Tools	Burp Suite, OWASP ZAP, Nikto, Nmap, Wireshark, Metasploit

Key Areas of Study & Expertise

Software Architecture & System Design

Deep understanding of architectural fundamentals, trade-off analysis, and distributed systems, reinforced by studying "The Fundamentals of Software Architecture" (Richards/Ford) and "Software Architecture: The Hard Parts." Proficient in designing evolutionary architectures, informed by "Monolith to Microservices" (Newman).

- Adept at applying proven solutions to recurring problems through comprehensive study of classic Design Patterns ("Design Patterns" by Shvets, Neztteruk's course).

Cloud Computing & Infrastructure

- Proficient in applying the AWS Cloud Adoption Framework (CAF) to inform migration strategy, conduct TCO analysis, and align technology solutions with business objectives.
- Proficient in designing and deploying scalable, highly available systems on AWS, guided by the Well-Architected Framework.
- Skilled in Infrastructure as Code (IaC) using Terraform for automated provisioning and management ("Terraform in Action").
- Solid conceptual understanding of containerization and orchestration with Docker and Kubernetes from multiple in-depth courses (Schwarzmill Müller, Grider).

Software Engineering & Full-Stack Development

Committed to writing clean, maintainable, and scalable code, grounded in the principles of Robert C. Martin ("Clean Code," "Clean Architecture") and David Farley ("Modern Software Engineering").

- Extensive, hands-on experience in full-stack JavaScript development, including advanced concepts, React, and Node.js, through completion of numerous bootcamps and guides (Zero to Mastery, Schwarzmill Müller, Traversy).
- Solid foundation in Data Structures and Algorithms, with implementations in Python and TypeScript/JavaScript, essential for efficient problem-solving ("Grokking Algorithms").

Education & Continuous Learning

- **University of Houston**, Houston, TX

- *Completed two years of coursework toward a Bachelor's degree in Computer Information Systems.*
- **Houston Community College (via Futures Academy), Houston, TX**
 - *Completed all but three courses required for the Associate of Applied Science in System Administration and Computer Networking.*
- **Development & Self-Study**
 - Guided by an ownership mindset and the drive to build high-value solutions, continually invested in courses, bootcamps, and diverse learning resources while applying new skills through hands-on projects and professional work. This pursuit reflects a deep-seated commitment to mastering modern technology with a forward-looking focus on how artificial intelligence will augment and redefine fields from solutions architecture and offensive security to the automation of physical systems.