

Alejandro Jose Marquez Grande

Senior Software Engineer / Full-Stack & Cloud

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Summary

Senior full-stack software engineer with 8+ years of experience designing and delivering scalable web applications, cloud infrastructure, and distributed systems. Proven track record of owning systems end-to-end, modernizing legacy platforms, and building reliable automation across AWS, large-scale APIs, and data-intensive environments. Comfortable operating in fast-moving, high-impact teams from startups to enterprise.

Experience

Senior Software Engineer

Occam Health Services / Sterling, VA

March 2024 – Current

- Re-architected a high throughput faxing pipeline using asynchronous queues and scheduled workers, reducing end-to-end latency from 15 minutes to under 1 minute, improving observability and failure handling.
- Led client migrations from legacy infrastructure to AWS, upgrading core services (storage, messaging, database access) and completing migrations in under one month with zero production incidents.
- Selected as the first engineer on the company's next-generation platform, defining foundational database schemas, service boundaries, and system architecture from the ground up.
- Built a centralized microservice platform for third-party integrations, consolidating duplicated client-specific services into a single maintainable system.

Software Development Engineer II (Transit Gateway)

Amazon Web Services / Herndon, VA

January 2022 – June 2023

- Owned the end-to-end modernization of a critical internal API supporting infrastructure provisioning and data warehousing, migrating from Python to TypeScript for improved type safety and extensibility.
- Supported globally distributed systems processing 1,000,000,000+ packets per second, ensuring reliability for latency-sensitive workloads including payments, data transfer, and streaming.
- Designed and implemented a proactive, distributed monitoring system that reduced false positives by 95% and false negatives by 34% through active intra-region validation.

Software Development Engineer I & II

Agilla Pro / Gainesville, VA

July 2018 – January 2022

- Led a full-scale modernization of the company's highest-traffic client platform, migrating from procedural PHP to object-oriented architecture, upgrading versions, and redesigning the UI across mobile and desktop.
- Refactored and stabilized mission-critical billing and payment systems, including recurring billing, discounts, chargebacks, and third-party integrations improving correctness and long-term maintainability.
- Owned full-stack architecture (frontend, backend, data, infrastructure) for production systems supporting \$1M+ in annual revenue.

Skills

Languages

PHP, TypeScript, SQL, JavaScript, Python, Scala, Java, C

Frontend

React, SCSS, Tailwind, Blade, Twig, Astro, Vue

Backend

Laravel, Django, REST APIs, Microservices

Cloud & Infra

AWS (EC2, EBS, Lambda, S3, RDS, DynamoDB, etc.), IaaS, CI/CD

Architecture

Distributed Systems, API Design, Event-Driven Systems

Practices

Agile/Scrum, Automation, Monitoring, System Modernization, AI Development

Projects

Daedabyte

Built and deployed production websites for local businesses, owning architecture, cloud infrastructure, performance optimization, and client delivery using modern JavaScript frameworks and AWS services.

Certifications

AWS Solutions Architect (Associate)

AWS Developer (Associate)

CIW Internet Business (Associate)

CIW Site Development (Associate)