# 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 while 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:** *Amazon Web Services - Transit Gateway / 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 1B+ 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 runtime 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 & Infrastructure:** 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)