

Juan Medina — Senior Backend / Full Stack Engineer

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SUMMARY

Senior backend/full stack engineer (18+ years) specializing in stabilizing and modernizing legacy systems: AWS migrations, automation, performance tuning, and pipeline reliability. Led a high-stakes bare-metal → AWS cutover (Apr–Jun 2024) involving DNS/TLS/routing/rollback/monitoring across ~900–1,000 domains. Strong backend focus (PHP/Node/MySQL) with proven ability to make slow systems responsive at scale.

CORE SKILLS

Backend: PHP (5.6–8.2), Node.js/Express, MySQL, PostgreSQL, REST APIs, GraphQL (basic)

AWS / Infra: Route 53, ACM, CloudFront, EC2, S3, CloudWatch, WAF, HAProxy, Nginx/Apache

Engineering: Performance tuning, caching strategies, migration planning, rollback strategy, monitoring, CI/CD, Git, Postman

Data / Other: ETL (Pentaho), web scraping, GIS (QGIS, GeoJSON, mbtiles)

EXPERIENCE

Winefetch Inc / Jonas Software — Senior Backend Developer

Remote • Sept 2023 – Jan 2025

Tech: PHP, MySQL, AWS (Route 53, ACM, CloudFront, EC2, S3, CloudWatch, WAF), Cloudflare, HAProxy, Git, Postman

- Led bare metal → AWS migration/cutover (Apr–Jun 2024) across ~900–1,000 domains, owning DNS updates, TLS cert provisioning, routing changes, rollback planning, monitoring, and end-to-end validation.
- Wrote Infrastructure-as-Code automation in **PHP using AWS APIs/SDK** to standardize provisioning and reduce manual migration work.
- Improved shared-database performance and overall platform responsiveness by splitting a connection-heavy “mega query” into smaller, staggered queries, reducing timeouts and peak MySQL connection pressure.
- Revamped feed syndication used by **hundreds of customers** across **12+ feeds**, introducing staggered processing and a **requeue** workflow so customers could trigger early re-indexing instead of waiting for nightly runs.

- Provided Tier-2 production support, debugging complex issues in live systems and collaborating with other senior engineers on modernization efforts.

Comps Inc. - Principal Full Stack Developer

Remote • Mar 2016 – Jun 2023

Tech: PHP, MySQL, jQuery, Node.js, ETL (Pentaho), AWS (EC2, S3), QGIS, Windows Server, Git, Postman

- Principal engineer modernizing a legacy **FoxPro desktop** product into a LAMP-based SaaS web platform serving **low-thousands of customers** and **millions of property records** (NYC boroughs, Long Island, and surrounding counties).
- Rebuilt ~95% of legacy logic and delivered a desktop-like responsive experience within browser constraints (data transport, responsiveness, state management).
- Improved performance (reported ~5× faster page loads) using selective query caching, preloaded constants, and server-side strategies to protect backend services from power-user load.
- Built internal **Node.js scrapers** and ETL pipelines to collect/normalize property data across **11 New York counties**, including NYC.
- Developed mapping features using **mbtiles + GeoJSON** overlays to visualize property data in a Google-style map experience.
- Implemented anti-account-sharing controls (session checks / auto logout) and built admin tooling to manage subscriptions and access across desktop + web.
- Unified licensing across platforms by analyzing the legacy licensing mechanism and implementing compatible validation in the web stack.

Earlier Engineering Experience (selected)

NbNet Systems Inc. — Full Stack Developer (Mar 2015 – Mar 2016) — internal SPA for client intake; Stamps.com API integration.

Knupfer International Gems — Principal Full Stack Developer (Oct 2013 – Mar 2015) — built “Buy Sell Memo” platform; Twilio messaging; inventory sync tooling.

Liquid Entertainment — Lead Developer (Jun 2006 – May 2010) — led 3 devs; built ecommerce and marketing sites; server administration; SEO wins.

Leadership / Community (optional)

Henry Street Settlement — Program Supervisor / Robotics Specialist (PT) (Oct 2020 – May 2022) — led team of 10; STEM workshops; Arduino/Raspberry Pi projects; curriculum + hands-on builds.