

Reymundo López

Lead Software Engineer & Systems Architect

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PROFESSIONAL SUMMARY

Accomplished Lead Software Engineer and Systems Architect with 15+ years of experience engineering high-throughput backend services, enterprise cloud platforms, and distributed systems. Pragmatic systems designer specialized in bidirectional architectural migrations—evaluating organizational scale and operational cost to seamlessly transition between microservices and modular monoliths. Proven track record architecting critical infrastructure supporting 5,000+ active enterprise devices daily, implementing novel biometric 2FA authentication subsystems, scaling consumer transit platforms to 5M+ users, and deploying automated CI/CD and Agentic AI developer platforms.

TECHNICAL SKILLS

Architecture & System Design: Distributed Systems, Microservices, Modular Monoliths, Bidirectional Architectural Migrations, High-Throughput RESTful APIs, Biometric 2FA Authentication, Event-Driven Systems

Languages & Backend: JavaScript (ES6+), TypeScript, Node.js, Express.js, Swift, Objective-C, Java, PHP, C, HTML5, CSS3

Cloud, DevOps & Security: Kubernetes (K8s), Docker, CI/CD (GitHub Actions), AWS (EC2, Lambda, S3, RDS), Terraform, HashiCorp Vault Secrets, Private Docker/NPM Registries, Firebase, Nginx, Linux/Ubuntu Administration

Data & Observability: Elastic Stack (ELK: Elasticsearch, Logstash, Kibana), PostgreSQL, MySQL, MongoDB, Redis, Enterprise ETL & Multi-Format Data Pipelines

AI & Developer Tooling: Agentic AI Workflows, Custom AI Developer Skills, Prompt Engineering, SDLC Automation, Issue & Branch Traceability

PROFESSIONAL EXPERIENCE

Lead Software Engineer

Dec 2021 – Present

Coforge (formerly Encora Inc.) | Remote

- **Enterprise Device Scale (5,000+ Daily Devices):** Architect and maintain core APIs and backend subsystems directly powering 5,000+ active enterprise client devices every day with high availability and fault tolerance.
- **Biometric 2FA Authentication Subsystem:** Designed and implemented an innovative multi-factor authentication (2FA) mechanism leveraging native FaceID and peer-to-peer verification flows, eliminating dependence on third-party authenticator applications.
- **Internal Developer Tooling & AI Skills:** Built and deployed custom AI-assisted development skills and automated workflows, standardizing business logic execution and eliminating repetitive development overhead across engineering teams.
- **Full-Lifecycle SDLC Traceability:** Automated end-to-end SDLC tracking linking issue generation directly to Git branching strategies, commit conventions, PR templates, and CI/CD validation gates.
- **Enterprise CI/CD & Security Pipelines:** Architected automated build/deployment pipelines integrating HashiCorp Vault secrets management, private Docker registries, internal NPM package registries, and enterprise SSO/authentication.
- **Kubernetes Orchestration & Observability:** Containerized full-stack services with Docker and configured zero-downtime deployment pipelines targeting internal Kubernetes (K8s) clusters; deployed Elastic Stack (ELK) for centralized telemetry and proactive log monitoring.

Senior Software Architect / Full-Stack Engineer

May 2021 – Oct 2021

Hatch Startups (Mi Compa Seguros & iSana Health) | Remote

- **System Design & Architecture Governance:** Guided core system architecture, load-handling strategies, infrastructure automation, and technical trade-offs across startup portfolio initiatives.
- **Cloud & Backend Engineering (Mi Compa Seguros):** Developed full-stack features and critical backend logic using React on AWS EC2, AWS Lambda, managed MySQL, and Terraform, accelerating feature delivery to meet strict product launch deadlines.
- **CI/CD & Cloud Automation (iSana Health):** Built and automated the core web foundation on Firebase and React, engineering end-to-end GitHub Actions CI/CD pipelines that automated production releases, real-time data sync, and internal operations.

Software Architect & Senior Engineer

Jun 2018 – Apr 2021

Anexinet (acquired Propelics) | Remote / León, Mexico

- **Monolith-to-Microservices Modernization:** Co-led the architectural decoupling of a large-scale monolithic application into domain-driven microservices, migrating workloads from a single AWS EC2 instance to multi-node Kubernetes (K8s) clusters.
- **High-Volume Data Transformation & API Facades:** Built high-throughput backend services that ingested, processed, and transformed massive enterprise datasets into optimized formats consumed by heterogeneous mobile clients.
- **Security & Auth Layer Segregation:** Designed distinct architectural layers separating authentication/authorization concerns from core data processing, cleanly bypassing legacy authentication roadblocks.
- **Enterprise Mobility & Acquisition Transition (Propelics):** Initially joined Propelics delivering high-performance mobile clients for US-based enterprise accounts; retained and promoted to Software Architect post-acquisition by Anexinet to lead cloud architecture and backend modernization initiatives.

Senior Mobile App Engineer

Nov 2014 – Jun 2018

unosquare | León Area, Mexico

- **High-Scale Transit Platform (5M+ Users):** Owned end-to-end mobile development of the Trip Planner engine on iOS and Android for the Chicago transit system (Ventra/CTA), serving over 5 million active commuters.
- **First-Wave Apple Pay Integration:** Implemented one of the earliest large-scale mobile Apple Pay payment flows, enabling seamless transit pass purchases and digital card management.
- **Shared Runtime Architecture:** Maintained a shared JavaScript business logic layer executed across iOS, Android, and backend services, ensuring consistent validation logic and accelerating cross-platform feature delivery.
- **Industrial Telemetry & Tracking Client:** Developed a native iOS application (Objective-C & Swift) for a North American forestry client, incorporating GPS telemetry, driver route logging, and automated compensation calculations.

Senior Mobile App Developer & Certified Trainer

Feb 2012 – Nov 2014

ITexico | Guadalajara / León Area, Mexico

- Consulted for enterprise clients on mobile architecture strategy and delivered cross-platform and native solutions using Appcelerator Titanium, Objective-C, C, and Java.
- Served as certified technical instructor delivering official Titanium certification courses (TCD, TCE, TCAD).

Earlier Engineering & Academic Foundation

2008 – 2012

- **Software Engineer | Consulting Technologies & Babker** (2010 – 2012): Core backend developer for babker.com using CodeIgniter, Zend, and Gearman; built asynchronous long-polling connections with PHP and Nginx on Ubuntu/OS X.
- **Senior .NET Developer | KSP** (2009 – 2010): Built enterprise .NET applications for HDI Seguros and developed web platforms using PHP and MySQL.
- **Operating Systems Lecturer | Universidad De La Salle Bajío** (2009): Instructed undergraduate computer science students on Linux server administration, network configuration, and terminal source compilation.
- **Software Engineer | Consulting Technologies** (2008 – 2009): Developed database-driven enterprise applications utilizing .NET and SQL Server.

EDUCATION

- **Master's Degree in Web Technology** | Universidad De La Salle Bajío (2009 – 2010)
- **Web Technology Specialist** | Universidad De La Salle Bajío (2008 – 2009)
- **B.S. in Computer Systems Engineering (ISC)** | Instituto Tecnológico de León (2002 – 2007)

LICENSES & CERTIFICATIONS

- **GenAI Training Path** (Agentic Track, Technical Track, Foundational) | Coursera
- **Titanium Certified Mobile Developer (TCMD), Expert Level 2 (TCE), Instructor (TCI), Application Developer (TCAD)** | Appcelerator