

Jimmy Guzman Moreno

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Lead Engineer | Principal Engineer Impact | High-Performance Systems | DevEx & Architecture

Principal-level engineering leader architecting high-performance, scalable systems. Passionate about improving developer experience, mentoring teams, and driving technical strategy to build resilient, business-impacting solutions.

Technical Skills

Languages

- TypeScript, JavaScript, Java, Groovy

Frontend

- ReactJS, SolidJS, NextJS, Astro

Backend & APIs

- Express, Fastify, GraphQL, REST, Kafka, Redis, PostgreSQL, MongoDB

Tooling & CI/CD

- Vite, Webpack, Rollup, Turborepo, NX, GitHub Actions, Jenkins

Testing & Reliability

- Vitest, Playwright, Jest, Cypress, Testing Library

Infrastructure & Observability

- Docker, Infrastructure as Code (IaC)
- Observability (OpenTelemetry, Grafana)

Engineering Leadership

- Security Best Practices, Mentorship, Technical Strategy, Hiring & Talent Development
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Professional Experience

Lead Engineer & System Architect (*Jan 2021 – Present*)

System Architecture & Modernization

- **Led migration to React Router v7**, reducing load times by **75%** and improving developer ergonomics.
- **Accelerated build times by 50%** by spearheading migration to **Vite**, enhancing developer productivity.
- **Designed and implemented a high-performance batch item query API**, reducing response times by **70%**. Recognized with the **2022 IPC Partner Award**.
- **Increased request efficiency by 40%** by developing a custom **Node.js HTTP client/wrapper**, reducing API latency.
- **Improved developer experience** by designing a **Type-Safe Backend** system.
- **Streamlined service creation** with a **microservices platform**, reducing time-to-production for new services.
- **Led mainframe decommissioning strategy**, designing a **key activation service** that accelerated ITA shutdown by **6 months**.
- **Enhanced change management** with a **feature flag system**, enabling controlled feature releases.
- **Boosted dependency management efficiency** by migrating to **PNPM**, cutting install times and resolving version conflicts.
- **Re-architected project structure with Turborepo**, improving build times and scalability.

Engineering Leadership & Best Practices

- **Reduced production bugs by 40%** by driving adoption of **stricter TypeScript practices**.
- **Improved initiative ownership and delivery speed** by implementing **Kanban & Ship Captains**.
- **Enhanced developer collaboration** by introducing **BDD-written stories**, bridging gaps between engineering and product teams.
- **Standardized version control practices** with **commit conventions**, improving release tracking.
- **Mentored 15+ engineers**, guiding multiple to **Lead Engineer** roles.
- **Strengthened hiring processes** as a **Talent Captain**, conducting interviews and case study reviews.
- **Drove STEM outreach** by leading **Tech2Elevate**, bringing STEM education to high school students.

Cross-Team Influence & Collaboration

- **Shaped cross-functional engineering strategy** by collaborating with Principal Engineers and Directors in the **Tech Case Study Working Group**.
- **Led architectural discussions in APPO**, streamlining cross-team strategy and integrations.
- **Improved UI/UX consistency enterprise-wide** by partnering with UX to introduce a **new design system and component library**.
- **Eliminated chatbot security vulnerabilities**, mitigating **SCA attack risks** and strengthening resilience.

- **Expanded engineering knowledge-sharing** by contributing to **React, TypeScript, and JavaScript Slack communities**.

Security & Performance

- **Maintained high security compliance** by keeping the platform's **PI Score near 850**.
 - **Hardened authentication security** by redesigning session management.
 - **Reduced CI/CD build times by 67%** (from **30+ minutes to under 10 minutes**).
 - **Fixed memory leaks in unit tests**, improving test efficiency.
 - **Championed observability improvements** by driving adoption of **TAP-compliant logging**.
 - **Prevented performance degradation** by designing a **microservice** to replace a deprecated API.
 - **Optimized API payloads**, improving response times in collaboration with API partners.
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Senior Lead Engineer | Ameriprise (2018–2021)

- **Architected scalable developer platforms**, improving infrastructure reliability and cutting onboarding time by **75%**.
 - **Designed and launched an enterprise React component library**, accelerating frontend development across **30+ teams**.
 - **Mentored 50+ engineers**, guiding multiple to senior roles and improving team proficiency in **React & TypeScript**.
 - **Partnered with backend teams** to build high-performance, API-driven applications.
 - **Enhanced CI/CD automation**, streamlining deployment pipelines and improving monitoring.
 - **Improved engineering standards** through code reviews and best practice adoption.
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Freelance Web Developer (2016–2018)

- Built and optimized **responsive web apps** for small business clients, improving **SEO, performance, and user engagement**.
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Education & Professional Development

- **California State University, Fresno** — Computer Engineering (2007–2010)
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Passionate about driving scalable architecture, improving developer experience, and mentoring high-impact engineering teams.