

Jimmy Guzman Moreno

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Lead Engineer | Operating at Principal Level | DevEx & Architecture

Technical leader bridging **architecture and developer experience** to drive **scalable, high-performance systems**. Proven track record of **mentoring engineers, optimizing developer workflows, and leading cross-functional initiatives** that improve system reliability and accelerate delivery. Passionate about **engineering excellence, DevEx, and designing resilient, business-impacting solutions**.

Key Strengths

- **System Architecture & Scalability** – Led major **frontend, backend, and database migrations** to improve system resilience.
 - **Supply Chain Engineering** – Designed **high-performance inventory and fulfillment systems** at Target.
 - **Developer Experience & Tooling** – Optimized CI/CD pipelines, improved **build times by 67%**, and introduced **Turborepo & PNPM**.
 - **Large-Scale System Migrations** – Migrated **30+ applications to NX Monorepo**, transitioned from **AngularJS to ReactJS**.
 - **Mentorship & Technical Leadership** – Mentored **50+ engineers**, driving multiple promotions to **Senior & Lead Engineer** roles.
 - **Performance Optimization & API Efficiency** – Reduced **API latency by 70%**, improved **frontend load times by 75%**.
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Technical Skills

- **Languages:** TypeScript, JavaScript, Java, Groovy
 - **Frontend:** React, SolidJS, Next.js, Astro
 - **Backend & APIs:** Node.js (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, IaC (Infrastructure as Code), OpenTelemetry, Grafana
 - **Engineering Leadership:** Technical Strategy, Developer Experience, Mentorship, Security Best Practices, Hiring & Talent Development
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Professional Experience

Lead Engineer – Supply Chain Technology – Target (*Jan 2021 – Present*)

System Architecture & Modernization

- **Led migration from AngularJS to ReactJS**, modernizing the frontend architecture for **scalability and maintainability**.
- **Led migration from Sequelize to Prisma**, improving database performance, type safety, and developer experience.
- **Architected NX Monorepo**, enabling **independent deployments for 30+ applications & 10+ teams**.
- **Designed a Key Activation Service**, accelerating a mainframe decommissioning effort by **6 months** and reducing operational costs.
- **Reduced load times by 75%** by leading migration to **React Router v7**, improving both UX and developer ergonomics.
- **Accelerated build times by 50%** by migrating to **Vite**, enhancing developer productivity.
- **Designed a high-performance batch query API**, cutting response times by **70%**—recognized with the **2022 IPC Partner Award**.
- **Increased API efficiency by 40%** with a custom **Node.js HTTP client**, reducing latency across services.
- **Developed a Next.js adoption proof of concept**, implementing key requirements to enable **internal design system component library** support, including **App Router** compatibility.
- **Implemented feature flagging**, enabling controlled feature rollouts and safer deployments.
- **Improved dependency management** by migrating to **PNPM**, reducing install times and resolving version conflicts.
- **Re-architected project structure** with **Turborepo**, improving build scalability.

Engineering Leadership & Best Practices

- **Reduced production bugs by 40%** by enforcing **stricter TypeScript practices**.
- **Drove initiative ownership** by implementing **Kanban & Ship Captains**, improving delivery speed.
- **Bridged engineering & product gaps** with **BDD-written stories**, improving collaboration.
- **Standardized version control** with commit conventions, improving release tracking.
- **Mentored 15+ engineers**, helping multiple advance to **Senior** and **Lead** engineer roles.
- **Strengthened hiring** as a **Talent Captain**, leading interviews and case study reviews.
- **Led STEM outreach** with **Tech2Elevate**, bringing engineering education to high school students.

Cross-Team Influence & Collaboration

- **Shaped org-wide technical strategy** in the **Tech Case Study Working Group** with Principal Engineers & Directors.
- **Led architecture discussions** in APPO, streamlining cross-team integrations.
- **Drove UI/UX consistency enterprise-wide** by partnering with UX to introduce a **design system & component library**.
- **Expanded knowledge-sharing** by contributing to React, TypeScript, and JavaScript engineering communities.

Security & Performance

- **Ensured security compliance** by maintaining **PI Score ~850**, aligning with **internal risk frameworks & regulatory standards**.
 - **Optimized CI/CD pipelines**, cutting build times by **67%** (from **30+ min to under 10 min**).
 - **Eliminated memory leaks in tests**, improving test efficiency.
 - **Drove observability adoption**, implementing **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 teams.
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Senior Lead Engineer – Ameriprise (2018–2021)

- **Accelerated onboarding by 75%** by architecting **scalable developer platforms**, improving team efficiency.
 - **Built & launched an enterprise React component library**, streamlining frontend development for **30+ teams**.
 - **Led Engineering Standards Committee**, defining best practices across all frontend teams.
 - **Mentored 50+ engineers**, helping multiple advance to **senior roles** while improving React & TypeScript proficiency.
 - **Designed high-performance, API-driven applications** in collaboration with backend teams.
 - **Enhanced CI/CD automation**, streamlining deployments and improving monitoring.
 - **Established engineering best practices**, elevating code quality through reviews & documentation.
 - **Led migration to an NX monorepo**, enabling **independent deployments for 30+ applications & 10+ teams**.
 - **Designed CI/CD pipelines for monorepo**, ensuring **faster, isolated deployments** and improving release cadence.
 - **Owned and maintained Create React App-like tooling**, standardizing frontend builds across multiple teams.
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Freelance Web Developer (2016–2018)

- **Built and optimized responsive web apps** for small businesses, improving **SEO, performance, and user engagement**.
 - **Increased client conversion rates** by designing **fast, accessible, and mobile-friendly UIs**.
 - **Implemented modern frontend best practices**, reducing page load times and enhancing UX.
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Education & Professional Development

- **California State University, Fresno – Computer Engineering (2007–2010)**

- **Treehouse** – Front End Techdegree, Computer Science (2017–2018)
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Passionate about **building scalable systems, optimizing developer experience, and mentoring high-impact engineering teams to deliver world-class software.**