

Samuel Gomez Serrano

Software Engineer | Product Engineer | AI Systems

Mexico-based | Open to Remote Roles & Employer-Supported Relocation | samgomezs7@hotmail.com | +52 442 747 1950

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PROFESSIONAL SUMMARY

Software Engineer with 6+ years of experience designing, building, and delivering end-to-end SaaS products, AI-powered systems, and enterprise business platforms. Experienced in owning the software development lifecycle—from technical discovery and architecture through frontend applications, backend services, API integrations, cloud deployment, and continuous product evolution. My experience combines product engineering, scalable system design, and AI-assisted development to build software that solves real business problems. I enjoy collaborating across engineering, product, and business teams while taking ownership of technical decisions and delivering maintainable solutions from concept to production. Currently building Kairo Systems, an AI-native SaaS platform integrating conversational AI, workflow automation, scheduling, and business operations through modern cloud technologies and LLM-powered workflows.

TECHNICAL EXPERTISE

Product Engineering	React, Next.js, TypeScript, JavaScript ES6+, TailwindCSS, component-driven development, design systems, SaaS product interfaces
Architecture & Systems	Scalable frontend architecture, modular systems, feature-based architecture, API-driven systems, product architecture, system design
Backend & Integration	Node.js, Express, REST APIs, GraphQL, PostgreSQL, SQL Server, service layers, API contracts, authentication flows, OAuth integrations, webhooks
AI Engineering	AI-assisted software development LLM integration Prompt engineering Conversational AI Agent workflows Function calling Claude Code GPT Gemini Groq AI automation
Performance & Quality	Core Web Vitals, rendering optimization, lazy loading, code splitting, memoization, hydration optimization, Vitest, Jest, React Testing Library, Playwright
Cloud, DevOps & Delivery	Vercel, Railway, Docker, Docker Compose, GitHub Actions, Sentry, CI/CD, Agile, Scrum, SDLC, documentation, code reviews

PROFESSIONAL EXPERIENCE

Ensamble Administrador de Riesgos y Sistemas | Mexico - Remote

Software Engineer / Frontend Lead | Sep 2021 - Present

B2B technology company developing enterprise SaaS platforms, workflow automation systems, operational dashboards, and business process tools.

Technologies: React, Next.js, TypeScript, JavaScript, TailwindCSS, REST APIs, SQL Server, GitHub, Core Web Vitals, Agile/Scrum

- Owned the technical delivery of enterprise SaaS products supporting operational workflows, business automation, reporting, and internal productivity across multiple business units.
- Designed scalable application architecture and reusable engineering patterns that improved maintainability, delivery speed, and long-term platform scalability.
- Built complex React and Next.js systems integrated with REST APIs, authentication flows, and SQL Server-backed business operations.
- Improved platform performance by approximately 30% through rendering optimization, modular architecture, lazy loading, memoization, and Core Web Vitals improvements.
- Standardized API integration layers and frontend service patterns, improving reliability and reducing inconsistencies across systems.

- Provided technical leadership through architecture decisions, implementation guidance, sprint planning, code reviews, and technical collaboration.

Key achievement: Reduced feature delivery time by approximately 30% through reusable architecture and modular systems adopted across multiple internal platforms.

Lumston | Mexico - Remote

Software Engineer / Contract / 2025

Software development company delivering web and digital products for enterprise clients.

Technologies: React, Next.js, TypeScript, TailwindCSS, REST APIs

- Delivered production-ready frontend features using React, Next.js, and TypeScript in a fast-paced engineering environment.
- Collaborated with backend, product, and design teams to implement scalable user-facing systems under tight delivery timelines.
- Improved frontend accessibility, responsiveness, maintainability, and engineering quality aligned with modern frontend standards.

Key achievement: Onboarded into an existing production codebase and contributed to multiple frontend features within short delivery cycles.

Lemu | Chile - Remote

***Product Owner & Mobile Engineer* | 2022**

Technology platform focused on environmental impact, mobile experiences, and data-driven digital products.

Technologies: Flutter, Dart, Node.js, GraphQL, Agile

- Developed mobile application features integrated with Node.js and GraphQL APIs.
- Owned feature definition, backlog refinement, and delivery coordination for mobile product initiatives.
- Connected product requirements with engineering execution, improving alignment between stakeholders, design, and development.
- Improved data flow efficiency, application responsiveness, and delivery planning processes.

Grupo KC | Mexico - Remote

***Frontend Engineer* | 2020 - 2022**

Financial and insurance services organization developing internal digital platforms and operational systems.

Technologies: React, Next.js, TypeScript, TailwindCSS, SQL Server, REST APIs

- Developed internal digital platforms supporting operational workflows, business processes, and enterprise users.
- Partnered with backend teams to improve API contracts, integration reliability, and operational workflows.
- Implemented reusable frontend patterns and modular systems to reduce duplicated logic and improve maintainability.

FOUNDER PROJECT

Kairo Systems | Mexico - Remote

***Founder & Software Engineer* | 2026 - Present**

Founder-led AI SaaS project for local businesses in Mexico, focused on customer communication automation, lead qualification, appointment booking, social media workflows, and operational dashboards.

Technologies: Next.js, React, TypeScript, Node.js, Express, PostgreSQL, TailwindCSS, Groq, Gemini, WhatsApp Cloud API, Google Calendar API, Meta Graph API, Cloudinary, Sentry, Docker, Railway, Vercel

- Designed and built an AI-native SaaS platform from the ground up, owning product strategy, software architecture, frontend applications, backend services, AI workflows, cloud infrastructure, and production operations.
- Architected a modular full-stack system with a Next.js dashboard, Node.js/Express API, PostgreSQL, WhatsApp automation, Google Calendar scheduling, and Meta Graph API publishing.
- Integrated LLM-powered automation with Google Calendar OAuth to connect natural-language conversations with real booking operations.
- Designed and implemented a AI-powered social content engine for generating, previewing, scheduling, and publishing branded Instagram/Facebook content.
- Applied AI-assisted engineering throughout the development lifecycle using Claude Code, GPT, and Gemini for architecture exploration, implementation, testing, debugging, documentation, and code reviews while maintaining engineering ownership of production decisions.

Key achievement: Built and deployed a founder-led AI SaaS product covering customer communication, appointment booking, content generation, API integrations, and operational dashboards, expanding it from a booking assistant into a broader business automation platform.

EDUCATION

M.S. in Project Management - UNITEC, Mexico | Apr 2021

B.S. in Mechanical Engineering - TEC de Chiapas | Dec 2017

LANGUAGES

Spanish: Native | English: Professional working proficiency | Japanese: Basic, currently studying

AI ENGINEERING

- Daily AI-assisted software development using Claude Code, GPT, Gemini and Groq.
- LLM-powered workflow automation.
- AI-assisted architecture exploration.
- Prompt engineering.
- Function calling.
- Conversational AI.
- AI-powered testing and debugging.
- AI documentation and code reviews.