

MARCO LOPES

Software Engineer / Software Architect | TypeScript, React, Node.js, Go, Rust & Flutter

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PROFESSIONAL SUMMARY

Senior software engineer and software architect with 10+ years of experience and 150+ project deployments overseen across SaaS platforms, internal business systems, cloud applications, logistics/warehouse tools, eCommerce integrations, and AI-enabled product workflows. Strong hands-on background in TypeScript/React, Node.js, Go services, Rust-oriented systems design, Flutter/Dart, PostgreSQL, Supabase, Firebase, MongoDB, Redis, AWS, Azure, Google Cloud, Docker, Kubernetes, and CI/CD. Known for turning complex requirements and legacy platforms into secure APIs, clean product specifications, production roadmaps, and AI-assisted development loops that improve engineering throughput.

TECHNICAL SKILLS

Languages & Front End: TypeScript, JavaScript, React, Next.js, Vite, Flutter, Dart, HTML, CSS, UX implementation

Back End & APIs: Node.js, Express, Go services, REST APIs, GraphQL, serverless functions, API/service architecture

Rust / Systems Focus: Rust, systems architecture, local-first tooling, desktop application patterns, WebAssembly concepts

Databases & Data: PostgreSQL, Supabase, Firebase, MongoDB Atlas, Azure SQL, Redis, NoSQL indexing, data migrations

Cloud & DevOps: AWS, Azure, Google Cloud Platform, Firebase, Docker, Kubernetes/GKE, CI/CD, serverless deployments

AI & Automation: LLM workflows, prompt pipelines, agentic workflow design, evaluator loops, TensorFlow, Keras, Dialogflow

Architecture: SaaS platforms, ERP/CRM/eCommerce integrations, tenant isolation, security review, audit logging, modernization

PROFESSIONAL EXPERIENCE

Kordspace | Founder / Software Engineering Consultant | Jan 2014 - Present | Denver, CO

- Provide senior full-stack engineering, software architecture, product strategy, and technical planning for startups, agencies, and growing businesses.
- Design SaaS platforms, internal systems, progressive web applications, multi-portal products, APIs, workflow automation, and cloud-native applications.
- Lead discovery, PRD creation, database design, implementation planning, security review, deployment strategy, and AI-assisted development workflows.

Svivah Tech | CRDO / Managing Director | Sep 2021 - Present | Denver, CO

- Lead R&D, product strategy, and platform planning for EdEnV and EnVWorld, a financial-literacy education ecosystem focused on classroom tools and simulation-based learning.
- Define product requirements, learning systems, feature roadmaps, UX flows, AI-assisted education workflows, and technical direction for school, teacher, student, parent, and game-based experiences.

SquareCoil | Lead Software Architect | Dec 2025 - May 2026 | San Diego, CA

- Led modernization planning for a legacy sign-manufacturing ERP into a scalable multi-tenant SaaS architecture across enterprise, corporate, and customer-facing applications.
- Designed architecture using React, TypeScript, Node.js, Go microservices, Azure infrastructure, and database-per-tenant strategy for stronger tenant isolation and scalability.
- Contributed full-stack development, API design, migration planning, secure file-storage planning, audit-ledger strategy, vulnerability review, and release-readiness coordination.

MyFBAPrep | Lead Software Engineer | Apr 2022 - Mar 2025 | Fort Lauderdale, FL

- Migrated Preptopia systems from Linode to Google Cloud Platform and supported GKE, Redis, MongoDB Atlas, CI/CD, QA, and production platform maintenance.
- Implemented order detail updates, catalog updates, inventory tracking improvements, diagrams, documentation, and stakeholder-facing technical support for warehouse operations.

Universal Music Group | Full Stack Technical Engineer | Apr 2022 - Mar 2024 | Santa Monica, CA

- Built embedded React/TypeScript applications for UMG artist Shopify stores using Polaris components and iframe-based app delivery.
- Developed backend services for database migrations, financial data workflows, product listings, email services, artist websites, and experimental AI/NLM assistant interfaces.

Tuzo Rewards | Lead Systems Architect | Jun 2023 - Dec 2024 | Phoenix, AZ

- Architected SaaS payment gateway and rewards software for ISO merchant onboarding, transaction rewards, raffles, and marketing workflows.
- Integrated merchant processing, rewards, and travel APIs including Access One, TSYS, Iris, Maverick, First Data, Sabre, and related partner services.

HIGH-VISIBILITY LOGISTICS & WAREHOUSE PROJECTS

Load To Ride / One Stop Freight Ways | System Administrator & Logistics Software Engineer | Jun 2018 - May 2022 | Denver, CO

- Supported technology operations for a national LTL, freight, and logistics network, including React/Firebase application updates, Google Cloud / Google Workspace administration, and production troubleshooting.
- Engineered operational workflows for a 50-person VoIP call-center environment, covering networking, hardware support, user administration, platform support, and day-to-day systems reliability.
- Built CSV automation, logistics filtering, AI-assisted pricing matrices, reporting workflows, and internal process improvements used to support freight quoting, dispatch, and customer-facing operations.

Fulfilld | Project Manager & CX Designer | Dec 2020 - May 2021 | Denver, CO

- Designed and documented warehouse IoT task-dispatching workflows for a location-aware warehouse operations platform integrated with SAP HANA and enterprise inventory systems.
- Produced Figma prototypes, user flows, and CX requirements for warehouse operators, supervisors, and task-routing experiences focused on reducing friction in floor operations.
- Implemented data-model and query-planning concepts for bulk SKU retrieval using PostgreSQL with NoSQL-style index mapping patterns for higher-throughput warehouse search and dispatch flows.

SELECTED EARLIER ENGINEERING PROJECTS

Fynda | Deep Learning Engineer & Full Stack Developer | Aug 2019 - Jan 2021 | Atlanta, GA

- Built music analytics and recommendation features using Spotify APIs, TensorFlow/Keras, Librosa, Kapre, React, and machine-learning genre classification from audio samples.
- Implemented user-facing music taste mapping, genre-ratio analysis, playlist/favorites workflows, and event-discovery concepts across React and third-party music/event APIs.

Musiclear | Project Manager & Ethereum Blockchain Engineer | Oct 2020 - Apr 2022 | Las Vegas, NV

- Built proof-of-concept royalty tracking and music-finance software using React, technical documentation, blockchain/DeFi prototypes, and generative AI writing tools for artist workflows.

Mortgage Ready / Legalese / FFPO | Project Manager & Full Stack Developer | 2018 - 2022 | Remote / West Coast

- Delivered CRM, billing-terminal, legal case-management, and strategic training software work across React, documentation, UX flows, API planning, and full-stack feature delivery.
- Converted business processes into product specifications, user journeys, front-end prototypes, and implementation plans for non-technical stakeholders.

ARCQ | CTO / Deep Learning Engineer | May 2019 - May 2022 | Portland, OR

- Developed AI conversational interface concepts and API services for historical/assistive virtual agents using GPT-2/GPT-3-era workflows, Dialogflow, TensorFlow, Keras, Python, Flask, and React.

Wurla | CTO / Ethereum Blockchain Developer | Jan 2021 - Mar 2025 | Cheyenne, WY

- Built React, Hardhat, Truffle, and Solidity prototypes for an ERC-1155 supply-chain and 3PL materials dApp supporting wallet-to-wallet goods and service transfer concepts.

PROJECT STRENGTHS

- **AI workflow and agentic engineering:** Design prompt pipelines, human-in-the-loop review flows, evaluator/optimizer loops, sequential and parallel task workflows, and AI-assisted development processes for higher engineering throughput.
- **Logistics, warehouse, and inventory systems:** Experience with freight workflows, warehouse task dispatch, SKU retrieval, order/catalog updates, SAP HANA integrations, pricing matrices, dispatch support, and operations-facing software.
- **Cloud modernization:** Move legacy systems toward AWS, Azure, Google Cloud, Firebase, GKE, Docker/Kubernetes, MongoDB Atlas, Redis, PostgreSQL, Supabase, CI/CD, and maintainable production support workflows.
- **Product-to-engineering execution:** Translate ambiguous business goals into PRDs, technical specifications, data models, API contracts, UI flows, tickets, release plans, and long-term platform roadmaps.
- **Security and reliability:** Apply tenant isolation, secure file-storage planning, audit logging, data-boundary review, release readiness, operational documentation, and practical risk reduction across SaaS platforms.
- **Cross-platform product delivery:** Support web, PWA, serverless, cloud, and mobile-facing product patterns, including Flutter/Dart targeting and TypeScript-heavy application stacks.

TARGETED ROLE FIT

- **TypeScript / React engineering:** Build dashboards, embedded apps, admin portals, data-heavy interfaces, API integrations, component systems, and production UI flows.
- **Rust-oriented systems work:** Comfortable targeting systems architecture, local-first tooling, CLI/desktop patterns, WebAssembly concepts, secure service boundaries, and performance-minded engineering.
- **Flutter / Dart product delivery:** Able to support cross-platform application surfaces, mobile-first workflows, Firebase/Supabase-backed applications, and shared product logic across web/mobile experiences.
- **Agentic workflow management:** Design task decomposition, prompt routing, review gates, traceable work loops, and AI-assisted spec-to-ticket systems that help teams move faster without losing control.
- **Operations-facing software:** Strong fit for products involving logistics, inventory, payments, warehouse workflows, education platforms, ERP modernization, and customer/internal portal systems.
- **Team and stakeholder execution:** Work directly with founders, operators, engineers, designers, and non-technical stakeholders to clarify requirements, remove ambiguity, and keep implementation aligned with business outcomes.

REPRESENTATIVE DELIVERABLES

- 150+ overseen deployments across production web applications, SaaS portals, cloud migrations, API integrations, database schemas, data migrations, internal tools, admin dashboards, and automation workflows.
- PRDs, architecture notes, implementation plans, UX flows, data models, API contracts, release-readiness checklists, QA notes, and technical documentation for engineering teams.

RELEVANT TOOLING & PLATFORMS

Frontend: React, TypeScript, Next.js, Vite, Flutter, Dart, Figma handoff, component systems, responsive/PWA implementation

Backend: Node.js, Express, Go services, REST, GraphQL, serverless functions, API contracts, service decomposition

Cloud/Data: AWS, Azure, Google Cloud Platform, Firebase, Supabase, PostgreSQL, MongoDB Atlas, Redis, Azure SQL

AI/Automation: LLM workflows, prompt chains, agent loops, task routing, evaluation loops, TensorFlow, Keras, Dialogflow

DevOps/Delivery: Docker, Kubernetes/GKE, CI/CD, deployment planning, QA support, release readiness, technical documentation

EDUCATION & CERTIFICATIONS

Camas High School - High School Diploma, Computer Sciences / Digital Design Studies

Certifications: Certified JavaScript Developer, HTML5 Developer, CSS3 Developer, Bootstrap 4 Developer, PHP 7 Developer

Languages: English (full professional), Spanish (elementary)