

David Domingo

Staff / Principal Software Engineer | Full-Stack, Platform & Integrations

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SUMMARY

Staff / Principal Software Engineer with 15+ years designing and building scalable, event-driven systems and high-performance frontends end to end.

Deep hands-on experience across architecture, integrations, payments, performance optimization, and cloud platforms (AWS, GCP, Kubernetes). Known for accelerating delivery (trunk-based development, feature flags), modernizing infrastructure (CDK to Pulumi), and delivering durable, developer-friendly platforms.

Focus areas: integrations, payments, microservices, performance and reliability, observability, and AI-assisted software development.

TECHNICAL SKILLS

Architecture & Practices: Systems Design; Event-Driven Architecture; Microservices; Domain-Driven Design; Integrations; API Design; Technical Leadership; Mentorship

Frontend: React; React Router; Angular; Next.js; TypeScript; JavaScript; RxJS; GraphQL (Apollo); Web Performance; Design Systems; Accessibility (WCAG)

Backend: Node.js / TypeScript (NestJS); Java / Kotlin (Spring Boot); Go; Python (FastAPI); REST; gRPC; Webhooks

Cloud & DevOps: AWS (Amazon Web Services: EKS, ECS, Lambda, API Gateway, SQS, S3, RDS); GCP (Google Cloud Platform); Cloudflare Workers; Kubernetes; Docker; Infrastructure as Code (IaC: CDK, Pulumi, Terraform); CI/CD (Continuous Integration / Continuous Delivery)

Data & Messaging: PostgreSQL; MySQL; DynamoDB; Snowflake; BigQuery; ClickHouse; Redis; NATS; Amazon EventBridge; ETL / ELT

Reliability & Observability: Datadog; SLOs / SLIs (Service-Level Objectives / Indicators); Incident Response; Performance and Database Optimization

Practices: Trunk-Based Development; Feature Flagging; Testing Strategy; Code Reviews; Agile; AI-Assisted Development (Claude Code)

PROFESSIONAL EXPERIENCE

Phoenix Ecommerce Technologies - Mooresville, NC (Remote)

Engineering Lead | Feb 2026 - Present

- Drive architecture and delivery for payments across a React + React Router checkout, a custom server-rendered React portal, and a NestJS backend on AWS EKS (MySQL), with Cloudflare Workers and analytics on GCP, BigQuery, and ClickHouse.
- Hardened Shopify webhook handling for resiliency and reliability, and introduced reconciliation across every payment gateway (previously unhandled).
- Improved database performance by ~34% across all queries and eliminated lock contention by switching transaction isolation from Repeatable Read to Read Committed.
- Raised every service SLO from two/three nines to four nines (99.99%) across availability, latency, and 5xx error rate.
- Built multiple Datadog dashboards for webhook and log observability, clearing a backlog of recurring production errors.
- Champion an AI-assisted software development lifecycle with Claude Code for code generation, evaluation, and debugging.

Tech: React, React Router, NestJS, AWS (EKS), MySQL, Cloudflare Workers, GCP, BigQuery, ClickHouse, Datadog, Claude Code

PetScreening - Mooresville, NC (Hybrid)

Senior Staff Engineer | Dec 2025 - Mar 2026

- Set technical direction, architecture, and strategy across effectively every engineering project at the company.
- Defined best practices for resilient, reliable partner integrations (webhook queuing, polling for updates, and two-way sync) with PetScreening's largest partners.
- Partnered with the incoming Principal Engineer to shape the tech stack and roll these standards out.

- Kick-started Project Paws, a stealth AI-driven initiative supporting the animal-assistant verification (reviewer) team.
- Continued leading the decoupling of the Ruby on Rails monolith into domain-oriented services.

Tech: Next.js, React, Ruby on Rails, Spring Boot, Kotlin, TypeScript, NX, NATS, AWS (EKS, S3, SQS, RDS, Lambda), Snowflake, Pulumi

Staff Solutions Engineer | Jul 2025 - Dec 2025

- Architected and released FidoAlert V2 by leading an autonomous full-stack team through rapid iteration cycles using NestJS, BullMQ, and React + TanStack.
- Architected standardized, event-driven partner integrations using Kotlin, Spring Boot, and NATS on EKS to reduce engineer-hours per onboarding and enable repeatable, secure data exchange.
- Built and operated a core webhook routing service in Go to authenticate, route, and audit cross-partner data flows across internal microservices.
- Led external design sessions, translating business requirements into scalable integration designs and SLAs.

Tech: Kotlin, Java, Spring Boot, Go, NestJS, NATS, EKS, AWS, Kubernetes, OAuth, Webhooks, Observability

Staff Software Engineer | Jan 2024 - Jul 2025

- Established architecture guardrails, code review rituals, and on-call as engineering scaled from 2 to 15 (650% growth).
- Championed trunk-based development and feature flags to decouple deployments from releases and increase delivery velocity.
- Designed the core partner-integration backbone with AWS API Gateway, SQS, and ECS for a decoupled, event-driven architecture resilient to partner variability.
- Modernized cloud infrastructure as code: introduced AWS CDK and guided a strategic migration to Pulumi for reliability and consistency.
- Mentored engineers across 7 product streams; instituted design docs, ADRs, and incident postmortems.

Tech: AWS (API Gateway, SQS, ECS, Lambda), CDK, Pulumi, Docker, Terraform, CI/CD, Feature Flags

ParetoHealth - Remote

Senior Software Engineer | Apr 2023 - Jan 2024

- Rebuilt the company design system in Angular and authored a custom SASS utility framework with atomic classes and code generation to standardize UI and speed delivery.
- Built internal apps (Angular) on a serverless backend to streamline sales and underwriting operations and reduce manual work.
- Implemented a serverless data stack with DynamoDB and TypeScript Lambda resolvers (AppSync) to integrate third-party services and improve data quality.

Tech: Angular, TypeScript, SASS, AppSync, DynamoDB, Lambda, Node.js, AWS, Design Systems

Bonus Homes - Remote

Senior Software Engineer | Jun 2022 - Mar 2023

- Architected an event-driven ETL pipeline with AWS EventBridge, Lambda, and ECS, provisioned end-to-end via AWS CDK (TypeScript) to automate ingestion and normalization for underwriting.
- Delivered GraphQL (Apollo / Node.js) and REST (Python / FastAPI) APIs powering a Next.js app and internal tools.
- Owned the full product lifecycle across infrastructure, backend, and frontend in a high-agency startup environment.

Tech: AWS (EventBridge, Lambda, ECS, S3), CDK (TypeScript), Node.js, Apollo GraphQL, Python, FastAPI, Next.js

Sunday - Remote

Software Engineer | Apr 2022 - Jun 2022

- Shipped payments and checkout features integrating Stripe and Toast POS; resolved integration bugs and data sync issues.
- Refactored checkout UI and styles to match updated designs; added Swile Mastercard detection for broader acceptance.
- Maintained services across React, Spring Boot, and Postgres on GCP / Kubernetes; improved CI/CD reliability.

Tech: React, Spring Boot (Java), Postgres, GCP, Kubernetes, Stripe, Toast POS, CI/CD

Slalom - Charlotte, NC

Senior Consultant | Aug 2020 - Feb 2022

- Cut new-hire onboarding from days to minutes using dev containers to automate dependencies and environments.
- Led migration from Scala / Teradata to Python / FastAPI and Snowflake to improve maintainability and hiring velocity.
- Led the Angular frontend for an internal B2B analytics tool to deliver complex reporting UX.

Tech: Angular, Python, FastAPI, Snowflake, Docker, Dev Containers, Terraform, CI/CD

EARLY CAREER (2014 - 2020)

- Lead Developer at PayTomorrow: built microservice architecture from the ground up (Java Spring Boot, Angular) and observability / deployment foundations.
- Additional full-stack engineering roles spanning integrations and performance tuning (2014-2020). Details available on request.

EDUCATION

M.S., High Performance Web Development - La Salle, Universitat Ramon Llull (Barcelona, Spain)

B.S., Multimedia Engineering - La Salle, Universitat Ramon Llull (Barcelona, Spain)

LANGUAGES

English (Native), Spanish (Native), Catalan (Native)