

ALFREDO VARGAS

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SENIOR SOFTWARE ENGINEER

tl;dr: I am a senior software engineer with ~7 years of experience in shipping, iterating, and owning platform systems and APIs that power client-facing products end-to-end. My expertise spans fullstack application development, data pipelines and APIs, developer tooling, and building high-scale systems, with a particular focus on web technologies, automation, system design, and the development of reliable/high-quality products.

SKILLS

Runtimes + Languages: JVM (Java, Kotlin) | Node, Bun (TypeScript) | SQL | Python

Libraries + Frameworks: Spring + Spring Boot | React | Next.js | Express | Apollo GraphQL

Datastores: Operational (PostgreSQL) | Caching (Redis) | Document (Azure Blob Storage, Elasticsearch, Cosmos DB)

Architectures: Backend (Event-Driven, Serverless, Kafka) | Frontend (SPA, Micro-Frontends via Vite Module Federation)

Delivery: Kubernetes | Docker | ArgoCD | Azure DevOps | Terraform | Flag Management (LaunchDarkly) | Datadog | GitOps

Misc.: Vite | Nx | Vitest | TestNG | Webpack | OpenAPI Fetch | REST | Identity and Access Management (IAM) | Azure Func.

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Versana (growth-stage FinTech startup, SaaS)

April 2023 - Present

Individual contributor with engineering leadership responsibilities, playing a crucial role in defining the technical vision and building Versana's core platform, encompassing client-facing products and solutions designed to power a unified data platform for banks, providing real-time data for a \$5 trillion syndicated loan market.

- Developed event-driven microservices to ingest and process 25k+ real-time banking transaction events, meeting strict SLAs and non-functional requirements for reliability and throughput. Implemented configurable business-rule validations, data normalization, standard error handling, and monitoring for core services.
- Architected and owned the core data validation framework, introducing data quality gates, auditability, and compliance enforcement for client-produced data, working towards reducing production data issues. Designed a custom validation library based on the JSON Schema spec, enabling rich validation, schema generation, and linting while keeping domain models self-contained and aligned with domain-driven design principles.
- Established API error-handling standards across microservices based on IETF RFC specifications, ensuring a consistent and governed DX for API consumers.
- Architected and built a platform-wide feature flagging framework that enabled product teams to ship incrementally and decouple deployment from release, standardizing how flags are created, governed, and consumed across the application. Automated infrastructure and flag management using Terraform and integrating workflows into CI/CD.
- Built a custom feature-flag library aligned with the OpenFeature spec, providing a vendor-agnostic API and intuitive DX for devs. Implemented autoconfiguration setup to simplify using flags in code, local testing, and integration testing.
- Built platform automation utilities in Python to eliminate manual workflows and improve the DX on maintaining QA platform tools.
- Led a migration from a monolithic SPA to a microfrontend architecture, enabling independent deployments, clearer ownership boundaries, and reduced release coordination overhead.
- Senior technical leader serving as a player-coach, responsible for engineering excellence through mentorship, technical guidance, and driving execution.

- Drove adoption of AI-assisted developer tooling (GitHub Copilot), improving engineering throughput.

Senior Software Engineer | Louisa | Goldman Sachs**October 2021 - April 2023**

Lead developer helping build a B2B SaaS platform that unlocks the collective intelligence of a company by mapping its expertise and relationships to empower its workforce to drive revenue growth and success.

- Led pods of engineers and communicated with designers, user researchers, and product managers to build user-centered features reaching over 40,000+ users and increasing engagement by 5%.
- Implemented a cloud service's Identity and Access Management (IAM) platform to enable integration with a customer's identity provider by supporting protocols such as SAML 2.0, OAuth 2.0, and SCIM 2.0.
- Code Reviewer for ~40 engineers to maintain code coverage above 95% and improve code delivery by 10%.

Software Engineer | Relationship Analytics and Eng. | Goldman Sachs**July 2019 - October 2021**

Helping build the central knowledge graph of Goldman Sachs, with over a million vertices and a billion edges, and delivering insights on big data to teams across the firm.

- Architected and implemented RESTful APIs to support over 10+ million daily requests with a 95% uptime by utilizing load balancing, rate-limiting, caching, and batch processing.
- Collaborated as a lead UI developer for pilot projects focused on making knowledge graph data, analytics, and insights accessible to over 15+ cross-divisional teams by building data visualization and workflow tools.
- Configured projects and established templates to integrate with CI/CD pipelines using Kubernetes and Docker to optimize development time and increase delivery by 50%.

PERSONAL AREA 51**Exploratory Projects**

- Built a personal site (alfredovargas.dev) using Astro as a proof-of-concept to evaluate its suitability as an API documentation site that integrates with OpenAPI specs.

EDUCATION**Bachelor of Science, B.S. in Computer Science**

California State University, Long Beach