ALFREDO VARGAS

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SENIOR SOFTWARE ENGINEER

Senior Software Engineer specializing in application development, platform engineering, and designing systems that connect product requirements with scalable backend architecture. Experienced in shaping engineering standards, improving internal developer platforms, and shipping user-facing applications backed by reliable, distributed systems.

SKILLS

Runtimes + Languages: JVM (Java, Kotlin) | Node, Bun (TypeScript) | SQL | Python
Libraries + Frameworks: 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 | IAM (SAML, OAuth2, SCIM) | Azure Func.

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Versana (growth-stage FinTech startup, SaaS)   **April 2023 - Present**

Individual contributor with engineering leadership responsibilities, playing a central role in defining the technical vision and evolving Versana's core platform, powering client-facing products that deliver real-time data for a $5 trillion syndicated loan market.

- Designed event-driven microservices processing 25k+ real-time transaction events provided by 10+ financial institutions, establishing end-to-end observability (monitoring, tracing, SLO alerting) to detect failures early, reduce operational friction, and maintain 99.5%+ service availability.

- Owned the core unified data model (PostgreSQL), designing normalized and extensible schemas with auditability while optimizing complex queries through query plan analysis and monitoring to sustain high-volume workloads and low-latency performance under ~500k writes and burst spikes exceeding 10x baseline write volume.

- Architected the core data validation framework (JSON Schema-based), establishing data quality gates, auditability, and compliance enforcement, putting the platform on track to reduce client-driven production data issues by 75%.

- Led the delivery of core roadmap features that expanded platform data coverage to support datasets representing ~50% of total market transaction volume, translating ambiguous requirements into high-quality user experiences that accelerated platform adoption.

- Shipped data dashboards and configuration workflows to curate user portfolio data and enable admin users to manage data integrations, building reusable React components and extending Versana's design system to deliver scalable, consistent, and data-focused user experiences (AgGrid, Nivo/D3), handling ~3k daily requests.

- Rolled out a platform-wide feature flag and experimentation framework that decoupled deployment from releases, enabling controlled rollouts, A/B testing, and incremental delivery while standardizing flag governance across 100% of applications and reducing release risk.

- Delivered a vendor-agnostic feature flag SDK (Java, React) aligned with the OpenFeature spec, providing an out-of-the-box solution for product dev teams to reduce the integration of feature flag capabilities by ~80%.

- Streamlined internal QA workflows by building platform utilities in Python and TypeScript, improving the DX of maintaining testing infrastructure and cutting manual overhead by ~50%.

- Co-spearheaded the migration from a monolithic SPA to a micro-frontend architecture, enabling independent deployments, clearer ownership boundaries, and reduced release coordination overhead spanning 7 product teams.

- Served as technical leader and player-coach for 20+ engineers, driving engineering excellence and improving team velocity by 15% through the adoption of AI-assisted developer tooling.

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

Led development in building a B2B SaaS platform that unlocks the collective intelligence of a company by mapping 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**

Developed the central knowledge graph of Goldman Sachs, with over a million vertices and a billion edges, and delivered 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