

Sean Chase

Staff/Principal Software Engineer & VP of Engineering

Phoenix, AZ · Open to Remote (USA) · Active DoD Secret Clearance

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SUMMARY

Staff/Principal full-stack engineer and architect, 20+ years in C#/.NET, Angular, and SQL Server on multi-tenant SaaS. Built platforms serving 135,000+ Army users and 100,000+ users across U.S. and Canadian nonprofit networks. Leads engineering teams and modernizes legacy .NET into ASP.NET Core and cloud-native architectures. AI engineering is the current edge: Claude Code, custom Model Context Protocol (MCP) servers, multi-model orchestration, agentic workflows, and AI evaluation in production.

CORE SKILLS

Backend & Languages: C#, .NET, ASP.NET Core, Entity Framework, Node.js (Fastify)

Frontend: TypeScript, Angular (Signals, Standalone, Zoneless, NgRx/RxJS), JavaScript

Data & Messaging: SQL Server, PostgreSQL, RabbitMQ, distributed APIs, event-driven architecture

AI Engineering: Claude Code, LLM APIs, Model Context Protocol (MCP) server architecture, multi-model orchestration, agentic workflows, AI evaluation

Cloud & Infrastructure: Azure, Terraform, Docker, Kubernetes, Azure DevOps, GitHub Actions, OpenTelemetry, CI/CD

Cross-Platform: Ionic + Capacitor, Electron

Architecture & Leadership: Multi-tenant SaaS, modernization, technical roadmap, mentoring engineers to senior

EXPERIENCE

Staff/Principal Engineer & VP of Software Engineering · nFocus Solutions

Phoenix, AZ · 2018 to Present

- Lead cross-functional team of 7 engineers across nonprofit and government product lines; mentor engineers to senior.
- Delivered customer-blocking platform capabilities under hard deadlines: migrated the multi-tenant SaaS platform from custom authentication to Keycloak SSO as a signed-contract dependency for a Fortune-class nonprofit customer. Migration landed on time and the contract closed.
- Provisioned Azure environments via Terraform for PerforMAP: firewall-segmented VNet, load-balanced web tier, database tier, RabbitMQ broker for async messaging, and OpenTelemetry instrumentation. Stood up dev and demo environments end-to-end. System demoed at the Pentagon and reached down-selection.
- Refactored legacy .NET applications into modern .NET and Angular platforms; validated deployments via Docker and Kubernetes.
- Implemented event-driven pipelines with RabbitMQ and RxJS processing attendance scans, SMS, and email webhooks for real-time notifications at scale.
- Established AI-orchestrated delivery as a repeatable team practice: shared coding agent standards, prompt and plan libraries, terminal-driven work-item generation against Azure DevOps, and automated test coverage in CI/CD.
- Designed and ran a production AI chat evaluation across multiple language models and providers with rubric-based scoring, latency stress tests, and structured-output failure analysis. Authored the decision document with three-tier recommendations, fallback paths, and cost validation against provider billing exports.
- Architected a custom Model Context Protocol (MCP) server in active iteration with chained tool use and real-time visualization in chat. Implemented multi-model routing in production: a smaller LLM gates user requests for context-fit before they reach the expensive model.
- Built a multi-model AI pipeline for production observability triage on legacy .NET: a smaller LLM classifies and ranks severity over high-volume New Relic APM logs, then Claude writes a top-10 Course of Action report with stack traces. Files tickets to Azure DevOps through a human approval gate.
- Built a set of agentic automations used daily across product management, client support, and engineering: Azure DevOps ticket classification, integration-status reporting, exception triage. Other engineers and stakeholders depend on them.

Stack: C#, .NET, ASP.NET Core, Angular (NgRx/RxJS), TypeScript, SQL Server, PostgreSQL, RabbitMQ, Docker, Kubernetes, Azure, Terraform, Azure DevOps, GitHub Actions, New Relic, Graylog, OpenTelemetry, Claude Code, MCP, LLM APIs

Principal Software Engineer · nFocus Solutions

Phoenix, AZ · 2010 to 2018

- Architected and delivered the U.S. Army's training management platform serving 135,000+ active soldiers; eliminated manual effort for long-range training schedules and automatically fed readiness data to Pentagon-level reporting, ensuring units were deployment-ready.
- Architected the analytics and reporting layer powering Army readiness dashboards and DHS critical infrastructure systems.
- Co-architected TraxSolutions, a secure multi-tenant SaaS platform serving 100,000+ users across the U.S. and Canada, enabling nonprofits to track millions of participants.
- Stood up an API gateway layer (Ocelot) in front of internal services for routing, authentication, rate limiting, and logging. Applied Backend-for-Frontend pattern for mobile-specific and web-specific API contracts. Decomposed monolithic platforms into service-oriented architectures.
- Delivered nFocus GeoSuite (General Dynamics platform, commercially licensed to nFocus) into production for the Arizona Counter Terrorism Information Center (ACTIC), Super Bowl XLIX multi-agency operations, and the Critical Infrastructure rollout.

Stack: C#, .NET, ASP.NET MVC, SQL Server, PostgreSQL, Angular, RabbitMQ

Senior Analyst / Integrator · Arizona Public Service (APS)

Phoenix, AZ · 2007 to 2010

- Migrated energy management systems to .NET and Oracle; built forecasting, energy accounting, and outage management systems for utility operations.

Additional Experience

- Co-founded My Billboard, a digital advertising platform built with Node.js, Express, React, and ASP.NET Web API on Debian Linux for high-availability media delivery.
- Senior software engineer and analyst at America West Airlines (aviation), and across software publishing, government, and law enforcement.

PUBLICATIONS & WRITING

- **Plain Machine (Substack).** Engineering practice in the AI-orchestrated era. Prompt engineering, agentic workflows, MCP architecture.
- **Microsoft Press / Coriolis Group.** Four published certification titles in enterprise application architecture, distributed systems, and database design. Microsoft Certified Trainer.
- **Personal AI Projects.** Side projects on Node.js (Fastify), Supabase, and Railway. Agentic conversation systems and persistent memory architectures backing custom MCP servers.

EDUCATION & CERTIFICATIONS

B.S. Computer Information Systems, DeVry University

Active certifications & clearances: CompTIA Security+ · Active DoD Secret Clearance