

# Sean Chase

Staff Engineer & Architect

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**Active DoD Secret Clearance** · Distributed .NET SaaS at scale · Directs Claude Code daily

## SUMMARY

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Staff engineer and architect shipping production .NET SaaS with AI agents in the loop. Practitioner of AI, not a commentator on it. Built distributed systems serving 135,000+ Army users and multi-tenant SaaS across the U.S. and Canada. Currently directing Claude Code, custom MCP servers, and agentic workflows in production delivery.

## CORE SKILLS

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**Languages & Platforms:** C#, .NET, ASP.NET Core, Angular (NgRx/RxJS), TypeScript, JavaScript, Node.js

**Data & Messaging:** SQL Server, PostgreSQL, RabbitMQ, Entity Framework, distributed APIs, event-driven systems

**AI Engineering:** Claude Code, LLM APIs, MCP server development, AI evaluation rubrics, prompt engineering

**Mobile Cross-Platform:** Ionic, Capacitor, Cordova, Electron

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

**Familiar:** Semantic Kernel (POC), LangChain, Azure (application architecture), Docker, Kubernetes (containerization verification), Azure DevOps, GitHub Actions

## EXPERIENCE

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**VP of Software Engineering / Staff Engineer & Acting Director** · nFocus Solutions

Phoenix, AZ

2018 to Present

- Led cross-functional team of 7 engineers across nonprofit and government product lines. Partnered with HR on hiring, interviews, and onboarding. Coached engineers into senior roles.
- Built a rapid prototyping practice that delivers working concepts and clickable prototypes to business stakeholders in days instead of weeks, accelerating roadmap decisions and stakeholder feedback cycles.
- Delivered milestones ahead of expectations with executive visibility by establishing 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 the pipeline.
- Designed and ran a production AI chat evaluation across a large volume of language models from multiple providers, using a prompt rubric, latency stress tests, and structured-output failure analysis. Authored the decision document with three-tier recommendations, fallback paths, and revisit conditions. Reconciled cost against billing exports.
- Architected and shipped a custom MCP server providing the AI agent with bounded access to product tools and tabular data, enabling chained tool use and real-time visualization in chat.
- 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.
- Refactored legacy .NET applications into modern .NET and Angular platforms. Validated container builds with Docker and multi-instance Kubernetes testing before deployment.
- Implemented event-driven pipelines with RabbitMQ and RxJS processing attendance scans, SMS, and email webhooks asynchronously, enabling real-time notifications and reporting at scale.
- Influenced executive roadmap decisions by presenting clear tradeoffs and alternative options. Advised on buy-versus-build decisions, preventing costly missteps with unsuitable white-label products.

Stack: .NET, Angular, SQL Server, PostgreSQL, RabbitMQ, Docker, Kubernetes, Azure, Claude Code, MCP, LLM APIs, Azure DevOps, GitHub Actions

## 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.
- Enabled a developer ecosystem (CATS) to build and maintain official Tables of Organization & Equipment (TOEs) via extensible APIs.
- Architected data warehouses and ETL pipelines powering analytics and dashboards for Army readiness and DHS critical infrastructure.
- Delivered secure, extensible systems for clients including the U.S. Army, DHS, and Boys & Girls Clubs of America.
- Built distributed APIs and services modernizing legacy systems into scalable, service-oriented architectures.

Stack: C#, .NET, ASP.NET MVC, SQL Server, PostgreSQL, ETL/SSIS, SSRS, OLAP/SSAS, Angular, RabbitMQ, CouchDB

## Co-founder · My Billboard

Phoenix, AZ

2014 to 2015

- Built a digital advertising platform with Node.js, Express, React, and ASP.NET Web API.
- Deployed content delivery systems on Debian Linux for high-availability media delivery.

## Senior Analyst / Integrator · Arizona Public Service (APS)

Phoenix, AZ

2007 to 2010

- Migrated energy management systems to .NET and Oracle, improving stability and performance.
- Developed forecasting, energy accounting, and outage management systems for utility operations.

## Earlier Experience

- Senior software engineer and analyst roles across aviation (America West Airlines), software publishing, government, and law enforcement clients.
- Authored four Microsoft Press / Coriolis MCSD certification titles (Visual Basic, distributed applications, SQL Server design) as a Microsoft Certified Trainer.

## PUBLICATIONS & WRITING

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- **Plain Machine (Substack).** Engineering practice in the AI-orchestrated era. Writing on prompt engineering, agentic workflows, MCP architecture, and how senior engineers operate alongside AI agents in production.
- **Microsoft Press / Coriolis Group.** Four published certification titles covering Microsoft Visual Basic 6.0 (Desktop and Distributed Applications), Visual InterDev 6.0 (Web Applications), and SQL Server 2000 Database Design.
- **Personal AI Projects.** Ship side projects on Node.js (Fastify), Supabase, and Railway, including agentic conversation systems and persistent memory architectures backing custom MCP servers.

## EDUCATION & CERTIFICATIONS

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**B.S. Computer Information Systems**, DeVry University

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