

Michael Tuszynski

AI Engineering Leader · Platform Builder · Former CTO & AWS Solutions Architect

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PROFILE

I build production AI systems that engineering and revenue teams actually use — not demos, not strategy decks. My current work codifies a Fortune-1000 professional services org's full pursuit lifecycle — discovery, qualification, proposal, SOW, delivery handoff — as an internal AI platform: 11 plugins, 60+ versioned slash commands, ~51K LOC, orchestrating Salesforce, Microsoft 365, OneDrive, Anthropic Claude, and AWS Bedrock behind a single operator surface.

I get to do this credibly because I've spent 25 years in the operations layer underneath: ran a 20-person engineering org as CTO of a streaming platform serving millions, and spent six years as a Senior Solutions Architect at AWS migrating the workloads everyone said couldn't be moved. AI engineering at scale isn't a different sport — it's the same evidence-driven, observable, cost-aware platform engineering, applied to a new substrate.

What I'm hired for: turning hand-wavy AI initiatives into versioned, auditable platforms with real guardrails, real evaluations, and real adoption.

Core Expertise: AI Platform Engineering · Agent Orchestration · LLM Evaluation & Guardrails · Engineering Leadership · Cloud Architecture · DevSecOps

SELECTED AI ENGINEERING HIGHLIGHTS

- **Internal AI presales platform (Presidio, 2025–2026)** — Architected and shipped a Claude Code plugin marketplace modeling the full pursuit lifecycle. 11 plugins, 60+ slash commands, ~51K LOC. Compresses hours of manual artifact production (call prep, qualification, proposals, SOWs, RAP submissions, delivery handoffs) into command-driven workflows with enforced evidence citation, prohibited-term scrubbing, and Presidio-claim attribution.
- **Platform-level AI engineering primitives** — Built a cross-platform OneDrive path resolver, a prompt-contract framework with versioned input/output schemas, evidence-citation and confidence-disclosure guardrails (High/Medium/Low + dated source URLs), and a session-start hook that hot-loads operational knowledge from a Teams-synced channel — institutional memory becomes ambient without a plugin release.
- **Agentic workflow design** — Codified a 57-question DSAE qualification framework, a RAP readiness pipeline, a SOW redline package generator, a staffing/pricing workbook auto-fill with template-drift detection, and cross-source company intelligence with confidence-rated outputs.
- **Multi-provider AI infrastructure** — Anthropic Claude (primary) with AWS Bedrock fallback for users without enterprise access; prompt caching for shared guardrails and knowledge base; per-command rule contracts; provider switching via env-var toggle.
- **AI advisory at the C-suite** — Designed modern application architectures incorporating LLMs and agentic AI for enterprise clients across Financial Services, Healthcare, and Manufacturing — bridging the gap between AI hype and production-ready implementation.

PROFESSIONAL EXPERIENCE

Principal Architect — Presidio

July 2025 – Present · San Francisco Bay Area · Remote

- Architected and shipped Presidio's internal AI presales platform — a Claude Code plugin marketplace that models the full pursuit lifecycle as versioned, auditable workflows (see Selected AI Engineering Highlights above for scope and primitives).
- Designed end-to-end AI-augmented solutions and roadmaps for C-suite stakeholders across Financial Services, Healthcare, and Manufacturing — including agentic AI implementations, LLM integration patterns, and evaluation strategies.
- Lead pre-sales technical strategy for AWS application modernization, conducting customer discovery workshops and defining target architectures for enterprise clients.
- Design containerization (EKS), serverless (Lambda), and API-first approaches for legacy system modernization.

- Serve as technical bridge between customers, sales, and delivery — translating business problems into viable solution architectures backed by working reference implementations.

Independent Consultant — MPT Solutions

April 2024 – June 2025 · San Francisco Bay Area · Remote

- Built CI/CD pipelines from scratch for multiple clients, cutting deployment cycles from weekly to daily with integrated security scanning.
- Led end-to-end development of a cloud-native platform, reducing client time-to-market by 50%.
- Provided fractional architecture advisory — including build-vs-buy decisions on AI/LLM tooling and helping clients avoid over-engineering early-stage AI features.
- Implemented security and compliance frameworks preparing client environments for enterprise readiness.

Senior Solutions Architect — Amazon Web Services (AWS)

December 2017 – March 2024

- Spent six years as a customer-facing SA helping enterprises design and implement cloud-native architectures — primarily container-based (ECS, EKS, Fargate) and serverless.
- Led complex migration projects from discovery through production cutover, specializing in the applications that “couldn’t be moved”.
- Authored and contributed to AWS open-source container training materials used by enterprise engineering teams.
- Drove consistent cloud cost optimization exceeding 30% for enterprise accounts; featured speaker on the AWS re:Think Podcast on right-sizing.
- Conducted deep-dive technical workshops and architecture reviews for engineering teams across industries.

Chief Technology Officer — Fandor

January 2014 – November 2017

- Ran the full technical organization — engineering, product, and operations — for a streaming platform serving millions of users. 20+ person team, \$4MM+ annual budget.
- Architected a cloud-native video processing pipeline handling 10,000+ titles with 99.98% uptime while processing petabytes of content.
- Led the monolith-to-microservices migration that enabled 100% YoY user growth without proportional infrastructure cost increases.
- Built the AVOD business from scratch, growing ad impressions 200% month-over-month.
- Established DevOps practices that improved deployment frequency by 10x.

Director, Technical Services — PointRoll

January 2006 – December 2011

- Led Ad Server Engineering and Platform Engineering teams for a digital advertising technology company.
- Optimized system architecture, reducing infrastructure costs by 35% while improving reliability.
- Implemented a disaster recovery program that cut downtime by 50%.

US Director of Technology — Flashtalking, Inc.

January 2012 – December 2013

- Led a 10-person technology team through rapid scaling, achieving 30% system efficiency improvement.
- Developed a strategic technology roadmap that contributed to 15% revenue growth.

Earlier Positions

- **Manager, Application & Reporting Solutions** — PointRoll (2013 – 2014)
- **Web Developer** — Gartmore Funds (2004 – 2006)
- **Systems Analyst** — Towers Perrin (2001 – 2004)

TECHNICAL EXPERTISE

AI & Agent Engineering — Anthropic Claude API (Sonnet, Opus, Haiku) · Claude Code plugin development · agent orchestration · prompt-contract design · LLM evaluation, guardrails & evidence citation · prompt caching · structured outputs · MCP (Model Context Protocol) · AWS Bedrock · multi-provider routing & fallback

Cloud & Infrastructure — AWS (deep): EC2, ECS, EKS, Lambda, S3, CloudFront, RDS, DynamoDB, ElastiCache · IaC: Terraform, CloudFormation, CDK · Containerization: Docker, Kubernetes · CI/CD: GitHub Actions, Jenkins, AWS CodePipeline · Observability: CloudWatch, Datadog, New Relic

Languages & Frameworks — Primary: TypeScript, Python, Go · Proficient: Java, Ruby, C#, Rust · Frontend: React, Vue.js · Backend: Node.js, Django, Rails, .NET Core · Data: PostgreSQL, MongoDB, Redis, Elasticsearch

Architecture & Practices — Platform Engineering · Microservices & Event-Driven Architecture · Domain-Driven Design · DevOps & SRE · Salesforce + Microsoft 365 (Graph API) integration · Agile/Scrum at Scale

CERTIFICATIONS

- **Harvard Data Science Initiative** — Agentic AI Intensive (2.5-week), December 2025
- **UC Berkeley Executive Education** — Professional Certificate in Machine Learning and Artificial Intelligence, 2025

EDUCATION

Saint Joseph's University — Erivan K. Haub School of Business · BS, Management Information Systems

WRITING & PERSONAL AI LAB

The Cloud Codex (mpt.solutions) — Real-world analysis of cloud infrastructure and AI engineering. No conference-talk platitudes.

NEXUS — Personal AI Lab — Multi-machine personal R&D workspace where I prototype the AI platform patterns that show up in client work: a NAS + Mac-mini + laptop topology with production services (TypeScript/Node), LaunchAgent automation, a custom Slack bot with auto-discovered slash commands, semantic search over conversation history (Ollama embeddings), self-hosted dashboards behind Cloudflare Tunnels, and integrations with Anthropic Claude, Plaid, Microsoft 365, Synology DSM, and GitHub. The test bed for prompt-contract patterns, agent orchestration, hot-loaded knowledge, and evaluation harnesses I later bring to enterprise engagements.