Michael Tuszynski

Cloud Architecture & AI Engineering Leader | Former CTO & AWS Solutions Architect | 25 Years Building at Scale

San Francisco Bay Area, United States

mike@mpt.solutions | 415-793-4717 | [Website](#) | [GitHub](#) | [LinkedIn](#)

PROFILE

I build and scale engineering organizations. Over 25 years, I've done this at every level—writing code at investment firms, running a 20-person engineering org at a streaming platform serving millions, spending six years as a Senior Solutions Architect at AWS, and now advising enterprises at Presidio on cloud modernization and AI strategy.

What I bring to the table: the ability to look at complex systems—technical and organizational—and identify what's load-bearing before someone knocks it down. I've architected platforms processing petabytes of video at 99.98% uptime, led container migrations that didn't end in disaster, and co-authored the ECS Workshop that's trained thousands of engineers. I write about cloud infrastructure and AI engineering at The Cloud Codex—real-world analysis, not conference-talk platitudes.

What I'm focused on now:

- Helping enterprises separate AI signal from noise—building solutions that work in production, not just demos
- Cloud modernization strategy that accounts for the migration you'll do *after* this migration
- Engineering leadership that treats operational excellence as a feature, not a cost center

Core Expertise: Engineering Leadership | Cloud Architecture | AI/ML Strategy | DevSecOps | Platform Engineering

PROFESSIONAL EXPERIENCE

Principal Architect | Presidio

July 2025 — Present

San Francisco Bay Area · Remote

- Lead pre-sales technical strategy for AWS application modernization, conducting customer discovery workshops and defining target architectures for enterprise clients
- Architect end-to-end solutions with detailed roadmaps, technical proposals, and ROI analysis for C-suite stakeholders across Financial Services, Healthcare, and Manufacturing
- Design containerization strategies (EKS), serverless architectures (Lambda), and API-first approaches for legacy system modernization
- Deliver modern application architectures incorporating LLMs and agentic AI, bridging the gap between AI hype and production-ready implementation
- Serve as technical bridge between customers, sales, and delivery—translating business problems into viable solution architectures

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, helping companies make build-vs-buy decisions and avoid over-engineering
- 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"
- Co-authored the ECS Workshop, one of AWS's most-used container training resources
- Drove consistent cloud cost optimization exceeding 30% for enterprise accounts
- Conducted deep-dive technical workshops and architecture reviews for engineering teams across industries
- Featured speaker on AWS re:Think Podcast on cloud cost optimization through right-sizing

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 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 2014

- 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 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 strategic technology roadmap that contributed to 15% revenue growth

Earlier Positions

- **Web Developer** | Gartmore Global Investments (2004 – 2006)
- **Systems Analyst** | Towers Watson (2001 – 2004)

TECHNICAL EXPERTISE

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

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

Architecture & Practices
- Microservices & Event-Driven Architecture
- DevOps, SRE & Platform Engineering
- Domain-Driven Design
- Agile/Scrum at Scale

CERTIFICATIONS

- Harvard Data Science Review – Agentic AI Intensive (December 2025)
- UC Berkeley Executive Education – Professional Certificate in Machine Learning and Artificial Intelligence
- AWS Certified DevOps Engineer – Professional
- AWS Certified Solutions Architect – Professional
- AWS Certified Developer Associate
- AWS Certified SysOp Associate

EDUCATION

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