

# Michael Tuszynski

Experienced Engineering Leader with 25+ years of technology expertise seeking a senior technical leadership role. Combining extensive experience in digital transformation and cloud architecture with current focus on AI innovation. Demonstrated success scaling engineering teams from startup to enterprise while delivering measurable results: 30% cloud cost reduction with 99.99% reliability, 70% faster deployment cycles, and effective mentorship of engineering leaders in AI/ML implementation. Skilled at combining strategic vision with hands-on expertise to build high-performing teams that deliver scalable solutions processing petabytes of data.

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📍 San Francisco, CA

🌐 <https://www.mpt.solutions>

## WORK EXPERIENCE

### MPT Solutions

Independent Consultant

April 2024 - present

- Spearheaded implementation of robust CI/CD pipeline reducing deployment times by 70%
- Led end-to-end development of scalable cloud-native platform reducing time-to-market by 50%
- Managed cross-functional teams delivering complex projects on time and within budget
- Implemented security checks and compliance frameworks across multiple client environments

### Amazon Web Services (AWS), San Francisco, CA

Senior Solutions Architect

Dec 2017 - Mar 2024

- Architected cloud-native solutions for enterprise clients across various industries
- Led technical discovery and solution design for complex migration projects
- Specialized in containerization strategies using ECS, EKS, and Fargate
- Achieved consistent cost optimization results exceeding 30% for client infrastructures
- Mentored junior architects and provided technical guidance to sales teams

### Fandor, San Francisco, CA

Chief Technology Officer

Jan 2014 - Nov 2017

- Led complete platform modernization, transitioning from monolithic Ruby on Rails architecture to scalable API-driven microservices approach, resulting in 40% improved performance
- Pioneered advanced content recommendation engine utilizing collaborative filtering and natural language processing, increasing viewer engagement by 65% and content discovery across the catalog
- Secured strategic partnership with Amazon Video, creating dedicated Fandor channel that expanded audience reach by 3M+ viewers while opening new revenue streams
- Strengthened platform security through comprehensive audit and implementation of industry-leading compliance measures, including SOC 2 certification and GDPR readiness
- Designed multi-CDN caching strategy with intelligent content distribution algorithms that prioritized trending content, reducing buffering by 75% and enhancing viewer experience
- Developed sophisticated financial analytics platform that ensured transparent revenue sharing with content creators, increasing filmmaker satisfaction and content acquisition success
- Optimized cloud infrastructure by eliminating redundant resources and implementing AWS managed services, achieving 30% cost reduction while improving system performance

### Flashtalking, Inc., San Francisco, CA

US Director of Technology

Jan 2012 - Dec 2013

- Led a team of 10 technology professionals, overseeing the successful implementation and maintenance of cutting-edge IT infrastructure, resulting in a 30% improvement in system efficiency and a 50% reduction in operational costs.
- Collaborated with cross-functional teams to drive innovation and digital transformation initiatives, leveraging emerging technologies such as artificial intelligence and cloud computing
- Maintained and improved real-time ad serving platform processing 50B+ monthly impressions, achieving 99.999% reliability while reducing data processing latency by 65%, enabling effective campaign optimization for major global brands
- Spearheaded migration to microservices architecture, reducing deployment times by 70% and enabling the team to implement 3x more features quarterly while maintaining code quality standards

- Led Ad Server Engineering and Platform Engineering teams
- Managed IT infrastructure projects achieving 20% YoY cost savings
- Enhanced technical support services increasing satisfaction by 30%
- Implemented disaster recovery reducing downtime by 50%
- Optimized system architecture reducing infrastructure costs by 35% while improving performance

**Early Career History**

Various

2001-2006

- Gartmore Global Investments | Web Developer | 2004-2006
- Towers Watson | Systems Analyst | 2001-2004

**EDUCATION****Saint Joseph's University, Philadelphia, PA**

Bachelor of Science (B.S.) - Management Information Systems

Aug 1997 - Jun 2001

**PROJECT****Falls Risk Prediction in Elderly Population**

Spring 2025

- Final Project for UC Berkeley ML/AI Professional Certificate
- <https://github.com/michaeltuszynski/mlaicapstone-final>
- Falls prevention represents one of healthcare's most pressing challenges for our aging population. Through this project, I developed a machine learning model that identifies elderly individuals at risk of falls using data from the National Health and Aging Trends Study (NHATS). With one in four Americans aged 65+ experiencing falls annually and medical costs exceeding \$50 billion, early risk identification can significantly impact both quality of life and healthcare costs.

**SKILLS**

- AI/ML Technologies: TensorFlow, PyTorch, MLOps, LLMs, AI Infrastructure
- Cloud & Infrastructure: AWS (EC2, Lambda, S3, RDS, DynamoDB), Kubernetes, Docker, Terraform
- Programming: Python, TypeScript, Java, Golang, C# (.NET)
- Databases: PostgreSQL, MongoDB, Redis, Elasticsearch
- Observability: Datadog, CloudWatch, New Relic
- CI/CD: GitHub Actions, Jenkins
- Web Technologies: React, Node.js

**Certifications**

- UC Berkeley Executive Education - Professional Certificate in Machine Learning and Artificial Intelligence  
[https://pdf.credential.net/v1eu2v6w\\_1744206296350.pdf](https://pdf.credential.net/v1eu2v6w_1744206296350.pdf)
- AWS Certified DevOps Engineer – Professional
- AWS Certified Solutions Architect – Professional
- AWS Certified Developer Associate
- AWS Certified SysOp Associate