Sam Muthu

Distinguished Engineer · Enterprise Architect · AI Innovation Leader

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Executive Summary

Visionary technology leader with **20+ years** driving digital transformation across startups and Fortune 500 companies. Expert in enterprise architecture, AI/ML integration, and cloud-native solutions with proven track record of leading teams of **30+ engineers** to deliver scalable systems serving **30M+ users**.

Core Competencies

AI & Emerging Tech: AI-assisted Development, RAG Pipelines, LLM Integration (Claude/GPT-4), Prompt Engineering
Architecture: Microservices, Cloud-Native Design, System Modernization, Enterprise Integration
Cloud & DevOps: AWS, GCP, Azure, Kubernetes, Docker, Terraform, CI/CD Pipelines
Languages: Java, JavaScript/TypeScript, Python, Spring Boot, React/Next.js, Node.js

Professional Experience

Head of AI Innovation | sammuthu.com

Nov 2021 – Present | Sunnyvale, CA - Pioneered AI-assisted development methodologies, achieving **10x developer productivity gains** - Built RAG pipelines and prompt-engineered workflows using Claude, GPT-4, and modern AI platforms - Created sammuthu.dev showcasing practical applications of cutting-edge AI technologies

Developer Advisor | Wells Fargo Bank (via NTT DATA)

May 2020 – Present | San Francisco Bay Area - Key contributor to modernization of mission-critical banking platform serving **30M+ customers** over 5+ years - Collaborated on decomposition of monolithic Oracle system into scalable microservices architecture - Designed and implemented secure authentication services including custom 2FA and Mobile Verify integration - Architected zero-downtime migration strategy using blue/green deployments

Co-Founder and CTO | Stealth IAM/Cybersecurity Startup

Aug 2020 – Nov 2021 | San Ramon, CA - Transformed decade-old cybersecurity business into modern IAM services powerhouse - Built and led engineering team of **30+ engineers**, scaling service delivery - Delivered enterprise IAM solutions competing with Okta, Azure AD, and Ping Identity

Technology Strategist and Chief Architect | Stealth Mode Startup

Dec 2018 – May 2020 | San Francisco Bay Area - Led technical vision for cloud-based license management platform from inception - Architected scalable microservices using Java, Spring Boot, and Google Cloud Platform - Built real-time data pipeline using Kafka and BigQuery for advanced analytics

Engineering Team Lead | Ericsson (Global)

Jun 2015 – Nov 2018 - Architected end-to-end observability platform for IPTV media division - Built REST APIs and recommendation engine similar to Netflix/YouTube architectures - Containerized microservices for multi-cloud deployment (Azure, AWS, OpenStack)

Key Achievements & Unique Strengths

- **Banking Platform Transformation** - 5+ years contributing to Wells Fargo's modernization serving 30M+ customers
- **AI Innovation Pioneer** - Achieved 10x productivity through AI-assisted development
- **Silicon Valley Native** - 20+ years living among tech giants; Apple, Google, Meta within 5-10 minute drive
- **Revolutionary Hiring** - Pioneered 3-minute video introduction process for efficient talent filtering
- **Relentless Work Ethic** - Up at 2:22AM, complete 10-mile hikes by 6:30AM where best ideas are born