MARIO MAMALIS

Senior Engineering Leader & Principal Architect

Azure | AWS | Cloud Modernization | Agentic AI Solutions | AI-Enabled Software Delivery

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PROFESSIONAL SUMMARY

Senior engineering leader and principal architect with 27 years of experience designing, building, and modernizing enterprise software while leading teams, clients, and complex delivery. Combines hands-on .NET/C# engineering with software and solution architecture, Azure and AWS cloud delivery, distributed systems, and technical strategy. Applies GitHub Copilot and LLM-assisted workflows across architecture, development, testing, documentation, troubleshooting, and modernization, with practical experience in Claude, Codex, Agentic AI, MCP, Enterprise LLM Integration, and Microsoft Foundry (Azure AI Foundry).

CORE EXPERTISE

Leadership & Delivery: Engineering leadership, technical strategy, client discovery, delivery leadership, recruiting, mentoring, team development

Architecture & Cloud: Azure, AWS, application modernization, distributed systems, APIs and enterprise integration, event-driven architecture, containers, Kubernetes, DevOps, observability

Engineering & AI: .NET, C#, Blazor, Clean Architecture, domain-driven design, automated testing, GitHub Copilot, Claude, enterprise LLM integration, agentic AI, MCP, Microsoft Foundry (Azure AI Foundry)

SELECTED AI & CLOUD CREDENTIALS

Microsoft Azure: Microsoft Certified Solutions Developer: Azure Solutions Architect (2017) | Microsoft Certified Solutions Expert: Cloud Platform and Infrastructure (2017)

MIT Professional Education: Applied Data Science Program: Leveraging AI for Effective Decision-Making (Jun 2025)

Current Cloud & AI: Claude Certified Architect- Foundations (2026), AWS Certified AI Practitioner (2026) | AWS Certified Cloud Practitioner (2026) | Microsoft Certified: Azure AI Fundamentals (2024) | Microsoft Certified: Azure Developer Associate (2023)

PROFESSIONAL EXPERIENCE

Senior Director of Application Development

UTurn Data Solutions | February 2026 - Present

- **Practice leadership:** Lead UTurn's application development practice, setting technical direction, delivery standards, recruiting processes, and capability-building priorities across custom software, modernization, cloud, and AI-enabled engineering.
- **Client delivery:** Led the Extensiv engagement through completion, bringing a long, complex delivery effort to a clean finish and strengthening client trust.
- **Architecture & observability:** Lead the Business Journey Monitoring initiative, combining architecture discovery, backlog definition, technical analysis, observability strategy, and cross-functional delivery planning.
- **AI-enabled engineering:** Designed and built StepTracker, an internal .NET 10 and Blazor WebAssembly MVP using Clean Architecture and an AWS Lambda, API Gateway, S3, and CloudFront deployment model; delivered a functional MVP in approximately 24 hours for about $150 in AI tooling using GitHub Copilot and disciplined AI-assisted workflows, supported by 497 automated tests and repository-level AI guardrails.
- **Cost reduction:** Built an AI-powered code-scan and reporting process for technology due diligence that became the standard approach, replaced an external provider, and saved tens of thousands of dollars in outside spend.
- **Talent & capacity:** Built a recruiting process that produced strong hires and strengthened engineering capacity through targeted talent changes, raising the team's delivery level.

Head of Engineering

Intrepid Solutions | September 2023 - February 2026

Principal Architect & Engagement Lead supporting UTurn Data Solutions client engagements

- **Principal-level ownership:** Combined hands-on delivery, architecture, team leadership, and client relationship ownership across complex enterprise application initiatives.
- **Hands-on implementation:** Contributed approximately 50% of the Notifications Engine implementation after joining months into the project, owning key design and delivery work while strengthening automated tests and release confidence.
- **AWS modernization:** Helped migrate notifications from legacy systems to an AWS-native architecture with minimal implementation disruption and independently designed and implemented the CW Outbound Adapter end to end using Clean Architecture.
- **Client trust:** Re-established trust with client stakeholders, QA, and delivery teams through consistent delivery, technical rigor, business understanding, and accountability.

PROFESSIONAL EXPERIENCE - CONTINUED

App Modernization Consultant - Software Architect

Xebia / Xpirit | October 2022 - September 2023

- **Azure modernization:** Advised enterprise clients on Azure application modernization, translating business and technical constraints into actionable cloud migration and architecture strategies.
- **Cloud architecture & development:** Architected and developed Azure-native web applications using .NET, Blazor, and managed Azure services; designed Azure Landing Zones with security, governance, and operational readiness in mind.
- **Domain & team enablement:** Facilitated Event Storming and mentored client teams on domain modeling, software architecture, and modern engineering practices.

Senior Solutions Architect - Director

Stokastic.com | February 2021 - October 2022

- **Team & delivery:** Restructured the engineering team and technical delivery approach for a data-intensive sports analytics platform.
- **Application modernization:** Led the hands-on modernization of a monolithic application into a .NET 6 and Blazor Server microservices solution.
- **Data platform:** Architected and developed data collection, analytics, and visualization capabilities while guiding architecture, technical standards, and team execution.

Lead Architect - Portfolio Manager

Capgemini | May 2020 - February 2021

- **Program leadership:** Led 5 architects and 30 developers on a two-year, multimillion-dollar financial services program built on .NET.
- **Architecture & discovery:** Designed enterprise solution architecture and facilitated Event Storming to align business domains, requirements, system boundaries, and implementation strategy across multiple workstreams.

Senior Solutions Architect - Director

NaviTread LLC | November 2018 - May 2020

- **Product & engineering:** Defined product vision and technical strategy, then architected and personally developed the Blazor MVP for a healthcare scheduling optimization platform.
- **Team leadership:** Led and mentored 7 nearshore software engineers across architecture, implementation, and delivery.

Practice Principal Architect

SPR Consulting | January 2017 - November 2018

- **Azure delivery:** Led Azure-based application architecture and delivery across multiple client engagements and architected and developed SPR's showcase Azure IoT solution.
- **Pre-sales:** Supported discovery and solutioning, translating client needs into credible technical approaches.

ADDITIONAL ENGINEERING & ARCHITECTURE EXPERIENCE

Senior Architect | Breakthrough Technologies | 2011 - 2017

Architected Microsoft-platform applications and mentored development teams across numerous client projects.

Senior Architect - Manager | Morgan Stanley | 2006 - 2011

Managed and trained a team of 6 developers; architected and developed the Financial Advisor Calculator used by 9,000 financial advisors.

Senior Programmer Analyst | AIM Specialty Health | 2004 - 2006

Built reusable components, delivered features for a mission-critical call center application, and modernized legacy systems.

Systems Analyst - Developer | Houghton Mifflin Harcourt | 1999 - 2004

Designed and developed internal and external systems; architected and led the Catglobal.com e-commerce module for online exam registration.

EDUCATION & PROFESSIONAL DEVELOPMENT

University of Illinois at Chicago: Bachelor's degree in information and Decision Sciences, May 2000

MIT Professional Education: Applied Data Science Program: Leveraging AI for Effective Decision-Making, issued Jun 2025, Credential ID 145936716

Anthropic / Claude - Completed Courses: AI Fluency: Framework & Foundations; Building with the Claude API; Claude on Google Cloud; Claude Code in Action; Claude 101; Claude with Amazon Bedrock; Introduction to Model Context Protocol

Anthropic / Claude: Claude Certified Architect – Foundations (2026)

AWS: Certified AI Practitioner (2026); Certified Cloud Practitioner (2026); Partner Technical Accreditation (2025); Partner Sales Accreditation (2025)

Microsoft: Azure AI Fundamentals (2024); Azure Developer Associate (2023); Azure Solutions Architect (2017); Cloud Platform and Infrastructure (2017); Cloud Platform (2017); Architecting and Developing Microsoft Azure Solutions (2017)

Additional Development: Azure IoT; DevOps Practices and Principles; GitHub Actions and Developer Accreditations