

# SHRIDHAR PATHAK

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## PROFESSIONAL SUMMARY

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AI Engineering Leader with 15 years in distributed systems and multi-agent AI. Built global consumer AI at Amazon Alexa; directs enterprise GenAI at Moderna; Founder & Advisor on a stealth enterprise agent evaluation platform (tracing, observability, evals). Scaled engineering organizations to 50+ members; managed programs with 40 direct reports and 145+ partner-team reports. Executive MBA candidate at MIT Sloan (2026), cross-registered at HBS.

## CORE LEADERSHIP & TECHNICAL EXPERTISE

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Conversational Agents & Multi-Agent Systems, LLM Orchestration, Fine-Tuning Strategy, Applied Generative AI Infrastructure, AI Platform Architecture & Developer Experience, Cloud-Native ML Systems (AWS, Distributed Microservices), AI Governance & Enterprise Compliance, Engineering Org Design & Global Delivery, Cross-Org Strategy (Research, Product, Infra, Legal, External Partners), MLOps.

## PROFESSIONAL EXPERIENCE

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### Stealth AI venture: Founder & Advisor — Enterprise Agent Eval Platform

2025 – Present

- Digital worker platform with full tracing and observability for AI agents (actions, decisions, outputs) plus automated/human evaluation pipeline to catch regressions before launch and improve quality over time.
- 50+ enterprise discovery calls; three design-partner pilots; validated seed-stage pricing model within six months; technical architecture and MVP.

### Senior Director, AI & ML: Moderna

Cambridge, MA | 2023 – Present

- Defined and executed Moderna's generative AI roadmap for 20+ enterprise applications, including conversational agents, function calling, and LLM orchestration workflows for R&D, manufacturing, and clinical operations. Built and led cross-functional AI/ML engineering teams (35+ engineers) delivering production LLM-based applications integrated with cloud infrastructure (AWS).
- Partnered with C-suite and business unit leaders to translate AI technical capabilities into measurable business outcomes, accelerating go-to-market strategy and stakeholder buy-in across pharmaceutical R&D, quality, and regulatory teams. Established strategic partnerships with OpenAI, AWS, and cloud AI vendors to integrate cutting-edge generative AI technologies into enterprise platforms.

### Amazon: Senior Manager & Tech Lead, Alexa AI

Seattle, WA | Bengaluru, India | 2018 – 23

Senior engineering leader responsible for large-scale conversational AI and multi-agent orchestration frameworks powering Alexa globally, managing 40 direct reports and 145+ partner-team reports spread across 8+ countries. Key Leadership Contributions:

- Multi-Agent Conversational Framework (Foundational Work for Agentic Systems): Architected and launched Alexa's first multi-agent conversational switching framework. Enabled seamless orchestration across celebrity personalities (Melissa McCarthy, Shaquille O'Neal, Amitabh Bachchan) and partner agents (Disney). Designed contextual aggregation and routing services handling millions of low-latency voice requests daily. Built scalable architecture supporting dynamic agent selection and personality switching.
- Global AI Product Expansion: Launched Alexa Voice Shopping across US, India, Japan, Canada, France, Italy, Spain, Mexico, Ireland, and Australia. Delivered international AI product rollouts requiring localization, regulatory adaptation, and infrastructure scaling.
- Applied ML Systems: Led integration of speech recognition, NLP, contextual understanding, and response orchestration. Defined APIs and service endpoints enabling ML-powered interactions in the Amazon India retail app (millions of DAU). Balanced personalization, privacy, latency, and reliability at global scale.