

VIGNESH ATHIAPPAN

Engineering Lead | Enterprise Systems Architect | AI & Integration Platforms
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SUMMARY

Engineering Lead with 7.5+ years building enterprise platforms, AI agent ecosystems, and data infrastructure. Architected a **real-time integration backbone (15+ systems, 50+ workflows)** and a **multi-agent AI assistant on Microsoft Teams (Azure OpenAI, Bot Framework, .NET 8)** serving 5,000+ employees. Built enterprise data lake (200+ tables) on Microsoft Fabric with AI Data Agents. Led ~25 engineers. Shipped production systems in 3–60 day timelines.

TECHNICAL SKILLS

Cloud	Azure (App Services, Bot Service, Functions, Logic Apps, Service Bus, API Management, Key Vault, Front Door, CI/CD)
AI / LLM	Azure OpenAI (GPT-5-chat, GPT-4o, GPT-4.1), Azure AI Foundry Agents, Azure AI Search, RAG, Multi-Agent Orchestration, Prompt Engineering, Agent Tool Calling, Dynamic GraphQL MCP
Backend	.NET 8, C#, Bot Framework SDK, Web API, REST, SignalR, GraphQL
Frontend	Angular, TypeScript, PrimeNG
Data	Microsoft Fabric (Pipelines, Notebooks, DB Mirroring, Copy Jobs), SQL Server, MongoDB, Power BI, KQL
Bot / Teams	Bot Framework SDK (.NET), Adaptive Cards, CloudAdapter, Teams Admin Center Deployment
Tools	Claude, GitHub Copilot, ChatGPT, M365 Copilot, Application Insights, Docker, Postman

PROFESSIONAL EXPERIENCE

Orion Innovation | *Technical Lead*

Sep 2021 – Present

Own architecture and delivery for enterprise platforms serving 5,000+ employees. Lead ~25 engineers across platform, integration, AI, data lake, and QA teams.

Nexi — Multi-Agent AI Assistant Ecosystem on Microsoft Teams

- **Project:** Enterprise-grade AI assistant deployed on Teams with multi-agent orchestration — central Logic App router dispatching queries to 4 production specialist agents (Resource Info, Leave, ADO Sync, Knowledge Base) integrating with Pulse, Classmate, Yoodli, NetSuite, and CRM.
- **Role:** Architect and lead. Built the Teams bot in C# / .NET 8 / Bot Framework SDK on Azure App Service. Designed the Logic App routing workflow, observability layer (Application Insights end-to-end), and prompt engineering across 14+ prompt iterations. Architected 3 next-gen agent systems (L&D Agent, PRM Agent with 10 sub-agents, Opportunity Agent with 7 sub-agents).
- **Impact:** Org-wide AI assistant making silent integration failures visible in plain English. Demonstrated to CEO/COO. Established multi-agent architecture patterns (promise-ledger, action registry, domain-driven sub-agent decomposition) reusable across future agent builds.

Nexus — Enterprise Digital Backbone & Integration Platform

- **Project:** Unified integration platform connecting 15+ internal and SaaS systems across HR, Sales, Finance, and Resource Management.
- **Role:** Sole architect. Designed integration layer (50+ Logic App workflows), integrated Greenhouse ATS (200+ job reqs/month).
- **Impact:** Eliminated operational silos organization-wide. Single real-time backbone for 5,000+ employees.

Microsoft Fabric Data Lake & AI Data Agent — Enterprise Data Platform

- **Project:** Enterprise data lake — 5–10 source systems, Bronze→Silver→Gold architecture, 200+ tables, 10+ curated Gold datasets.
- **Role:** Architect and team lead (4 data engineers + 3 Power BI analysts). Migrated 2 sources personally. Built dynamic GraphQL API (MCP layer) — AI model reads schema, constructs queries, summarizes answers conversationally.
- **Impact:** Democratized data access for Operations, FP&A, HR, Sales, and C-suite. Demonstrated HR Data Agent to CEO.

Lake Reports — Enterprise Reporting Platform on Fabric Gold

- **Project:** Greenfield reporting platform — 20+ reports across 6 categories, catalog UI, dynamic filters, favorites, multi-format export (Excel, CSV, PDF, JSON).
- **Role:** Architected full solution (Angular + .NET + Fabric Gold). Directed team on implementation.
- **Impact:** Single reporting hub replacing fragmented reporting, consumed by FP&A, HR, Operations, Sales, and executive leadership.

Sales Summary — AI-Driven Revenue Intelligence

- **Role:** Designed two-tier parallel architecture ingesting Teams, Email, CRM data. Integrated with Fabric Gold for Copilot insights.
- **Impact:** Shipped in 3 weeks. COO uses AI insights for deal tracking across ~15 key accounts.

Performance Management System — 60-Day Delivery

- **Role:** Independently designed complete schema and configurable workflow engine. Led full lifecycle to production.
- **Impact:** Live within 60 days, now used organization-wide across all geographies.

Skills Intelligence Platform — 45-Day Delivery

- **Role:** Solo architect — schema, workflow, competency framework, reporting. **Impact:** End-to-end in 45 days. Enterprise-wide skill visibility.

Project & Time Management (OPM) — Resource Allocation & Compliance

- **Role:** Designed allocation workflows (38 test scenarios, 7 checks). Led EU rollout in Serbia (2 months, 2,000+ employees, 20+ PMs). **Impact:** Unified global operations under one framework.

Centralized Approval Hub + SSRS Migration — Governance & Azure Readiness

- Consolidated approval workflows into single auditable platform. Replaced ~90 on-prem SSRS reports with SheetJS Excel builders — removed the critical blocker for Azure cloud migration.

AQA Education — *UK-based examination and certification body.*

- **Role:** Developed enterprise web services and RESTful APIs for examination management and certification workflows.
- **Impact:** Full lifecycle delivery — requirements, API development, integration testing, production deployment.

LEADERSHIP & TEAM BUILDING

- **Led ~25 engineers** across platform, AI agents, integration, data lake (4 engineers), Power BI (3 analysts), and automation testing teams.
- Trained 3 fresher batches into production-ready engineers. Built three new org capabilities: Fabric Data Lake team, Automation Testing practice, and AI Agent engineering.
- Drove demo-first delivery strategy — framing roadmaps around stakeholder-visible wins to secure executive buy-in before scaling agent fleets.
- Embedded AI-first engineering practices — prompt engineering as a daily force multiplier for architecture, code generation, debugging, and documentation.

AWARDS

2025 Pinnacle Nominee – Dream Team | 2024 Pinnacle Team Award | SPOT Award – Execution & Innovation | Bronze Badge – Learning Credits

EDUCATION

Bachelor of Engineering (EEE) — Sri Krishna College of Engineering and Technology

2015 – 2019