ARUN KUMAR MUDIRAJ

ENGINEERING LEADERSHIP | AI-ENABLED PLATFORMS | CLOUD & DATA

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EXECUTIVE SUMMARY

Engineering leader with 25+ years of experience translating complex business needs into scalable cloud platforms and enterprise systems. Principal Software Engineering Manager at Microsoft, leading multi-team initiatives across Azure billing, Azure DNS, and enterprise modernization. Brings hands-on technical depth, roadmap ownership, cross-functional influence, and onshore/offshore delivery experience to lead AI-enabled transformation of business-critical platforms.

CORE LEADERSHIP & TECHNICAL EXPERTISE

AI/ML Applications & AIOps Anomaly detection; agentic workflows; AI-assisted engineering; SRE automation; self-service platforms.

Cloud & Data Engineering Azure distributed systems; serverless processing; event-driven integration; database architecture.

Engineering Leadership Multi-team oversight; technical roadmaps; talent development; stakeholder alignment; distributed delivery.

Execution & Reliability Service health; cloud migration; quality governance; release discipline; cost and performance optimization.

PROFESSIONAL EXPERIENCE

MICROSOFT INDIA DEVELOPMENT CENTER

Principal Software Engineering Manager | October 2016 – Present

Scope spans billing platform adoption, engineering automation, DNS service reliability, and enterprise application transformation.

AI-Enabled Billing & Engineering Transformation

- Drive adoption of the ORO billing platform across Azure engineering teams, aligning stakeholders around shared platform capabilities and operational improvements.
- Lead anomaly-detection initiatives to surface billing discrepancies and potential revenue leakage, supporting targeted recovery efforts.
- Champion agentic AI and AI-assisted development workflows to improve engineering productivity and reduce repetitive implementation effort.
- Lead SRE-agent initiatives to accelerate operational response and reduce manual intervention in recurring workflows.
- Drive bot-based and CLI self-service onboarding to simplify platform adoption and reduce dependence on manual support.

Azure DNS | Multi-Team Cloud Platform Leadership

- Led multiple teams spanning DNS fleet health, reliability, Azure portal experiences, SDKs, CLIs, billing integration, and supporting platform components.
- Set technical direction and engineering priorities for critical cloud capabilities, balancing customer experience, scalability, reliability, and delivery efficiency.
- Partnered with product, design, and engineering leaders on complex platform and customer challenges, including dangling DNS risks.
- Strengthened operational visibility, release discipline, and reusable automation to improve service management, maintainability, and delivery quality.

Enterprise Platform Modernization | OEM Integration

- Led end-to-end application modernization, translating business requirements into scalable platform designs and engineering delivery plans.
- Directed migration from Silverlight to React.js, Redux, and Saga to improve maintainability and accelerate onboarding of new capabilities.
- Modernized scheduled background workloads with Azure Logic Apps and Event Grid, improving automation and scalability.
- Advanced API gateway-based service integration with stronger authentication, authorization, and service abstraction.

PROFESSIONAL EXPERIENCE | CONTINUED

APPLIED INFO SERVICES INDIA PVT. LTD.

Architect — Cloud Applications & Enterprise Platforms | January 2013 – September 2016

Led architecture and engineering delivery for Azure Service Catalog and Cloud BackOffice, covering application design, automation, database architecture, and reusable components.

- Translated business requirements into enterprise application designs and implementation plans.
- Established shared packages and reusable engineering components to improve consistency and development efficiency.
- Led technical reviews and implementation decisions to strengthen solution quality and maintainability.

DELOITTE

Specialist Master — Enterprise Application Engineering | April 2011 – January 2013

Led architecture, modernization, and engineering quality for enterprise planning and delivery management applications.

- Directed application re-architecture to address performance, scalability, and maintainability.
- Established solution patterns aligned with business needs and strengthened quality through formal design and code reviews.

COGNIZANT

Architect — Enterprise Application Engineering | March 2008 – March 2011

Provided architecture and technical leadership across enterprise application development and modernization engagements.

- Led solution design and end-to-end implementation, establishing patterns for scalable, maintainable software.
- Resolved complex technical issues and guided engineering teams through implementation and formal code reviews.

CATALYTIC

Technical Lead — Software Engineering | August 2007 – February 2008

Led software design, development, and quality improvement; coordinated onsite and offshore teams, resolved technical issues, and supported delivery.

WIPRO

Technical Lead — Software Engineering | June 2004 – August 2007

Led technical implementation for Microsoft-related software products and enterprise applications.

- Coordinated requirements, work allocation, and implementation across onsite and offshore teams.
- Improved modularity by separating presentation and business logic; contributed to feature delivery, production readiness, instrumentation, and automated testing.

ESN TECHNOLOGIES

Project Engineer — Networking & Embedded Software | February 2000 – March 2004

Designed and developed networking, streaming media, and device-management software for Windows CE, Palm OS, and Symbian.

- Contributed to HTTP, RTP, and RTSP transport and streaming capabilities, alongside testing, instrumentation, and technical documentation.

TECHNOLOGY

Agent Integration Concepts: Model Context Protocol (MCP), tool orchestration, context management, human-in-the-loop controls

Cloud & Integration: Microsoft Azure, Azure IaaS/PaaS, Azure Logic Apps, Event Grid, Service Bus, Azure Storage, serverless architectures

Software & Data: C#, .NET, ASP.NET Web API, REST APIs, WCF, React.js, Redux, SQL Server, Entity Framework, database architecture

EDUCATION

Bachelor of Engineering (B.E.), Computer Science | University of Madras | 1999