

# SOLAIRAJ MARIAPPAN

## Enterprise Cloud & AI Solutions Architect

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### PROFESSIONAL SUMMARY

Enterprise Cloud & AI Solutions Architect with 15+ years of experience designing scalable cloud-native enterprise platforms, distributed systems, AI-enabled business solutions, and cyber security governance frameworks. Experienced in designing microservices-based solutions, event-driven integration systems, and Agentic AI workflows using Azure OpenAI and intelligent automation platforms. Proven ability to lead enterprise modernization programs, architecture governance initiatives, security-focused cloud solutions, and technical leadership while delivering scalable, resilient, and secure cloud-native platforms aligned with business goals.

### PROFESSIONAL EXPERIENCE

#### IT Solution Architect

**Tata Consultancy Services 2022 – Present**

- Designed scalable cloud-native enterprise platforms on Microsoft Azure using microservices, distributed systems, event-driven architecture, and secure enterprise integration patterns.
- Led enterprise modernization and cloud transformation initiatives focused on scalability, resilience, security, and cloud-native solution delivery.
- Architected intelligent automation and Agentic AI workflows using Azure OpenAI while defining architecture governance standards and best practices.
- Collaborated with stakeholders and engineering teams to deliver secure, resilient, and business-aligned enterprise solutions while mentoring teams on cloud-native and distributed architecture principles.

#### Senior Software Engineer

**Rocket Software 2019 – 2022**

- Designed and modernized enterprise applications using Azure cloud services, microservices architecture, and distributed system design principles.
- Implemented event-driven integration solutions using Azure Service Bus and API-based communication patterns to improve scalability and system resilience.
- Collaborated with cross-functional teams to deliver secure, scalable, and maintainable enterprise platforms aligned with business requirements.

#### Technical Lead

**Wipro Technologies 2017 – 2019**

- Led engineering teams in delivering scalable enterprise applications and cloud modernization initiatives using Microsoft technologies and distributed architecture patterns.
- Provided technical leadership and solution guidance for application integration, scalable design practices, and enterprise solution delivery.

#### Project Associate

**Cognizant Technology Solutions 2011 – 2017**

- Developed and supported enterprise applications using Microsoft technologies, RESTful APIs, and SQL Server-based systems across enterprise environments.
- Contributed to application design, system integration, and end-to-end software delivery while collaborating with cross-functional teams and stakeholders.

### KEY HIGHLIGHTS

- Enterprise Cloud & AI Architecture
- Agentic AI Workflow Orchestration
- Cloud Modernization & Digital Transformation
- Cyber Security & Architecture Governance
- Distributed Systems & Enterprise Integration
- Azure OpenAI & Intelligent Automation

### CORE EXPERTISE

#### Cloud Architecture

- Microsoft Azure & AKS
- Cloud-Native & Microservices Architecture
- Distributed & Event-Driven Systems
- API Management & Enterprise Integration
- Scalable, Resilient & Secure Cloud Solutions
- Architecture Governance & Cloud Modernization

#### AI & Agentic AI Architecture

- Azure OpenAI
- Agentic AI Workflows
- AI Orchestration
- Intelligent Automation
- RAG-Based Solutions
- AI Agents & Enterprise AI Platforms

#### Enterprise Architecture

- Microservices Architecture
- Domain-Driven Design (DDD)
- CQRS Patterns
- Enterprise Integration Patterns
- Scalability & Resilience

#### Cyber Security & Governance

- Architecture Governance & Security Standards
- Secure Cloud & Solution Architecture
- Identity & Access Management (IAM)
- Secure API & Integration Design
- Enterprise Security & Compliance Practices
- Resilient & Security-Focused Solution Design

### CERTIFICATIONS

- Azure AI Engineer Associate (AI-102)
- Azure Fundamentals (AZ-900)

### EDUCATION

- Bachelor of Engineering–  
Computer Science & Engineering

## **SELECTED ARCHITECTURE INITIATIVES**

### **Enterprise AI Workflow Platform**

Architected AI-enabled workflow platform using Azure OpenAI and intelligent orchestration patterns to automate enterprise business processes, improve operational efficiency, and enable scalable AI-driven automation capabilities. Collaborated with stakeholders and engineering teams to align AI solutions with enterprise modernization objectives while ensuring secure, resilient, and governance-focused solution design practices.

### **Cloud Modernization Initiative**

Led modernization of legacy enterprise applications into scalable Azure-native microservices architecture improving scalability, deployment agility, resilience, and cloud-native adoption. Defined architecture standards, modernization strategies, and distributed system design approaches aligned with enterprise scalability, maintainability, and cloud transformation goals.

### **Event-Driven Integration Platform**

Designed asynchronous enterprise integration platform using Azure Service Bus, API Management, and distributed messaging patterns enabling resilient, scalable, and loosely coupled enterprise communication. Implemented secure integration architecture practices, event-driven communication models, and enterprise integration standards supporting high-availability cloud-native platforms.

### **Secure Cloud-Native Architecture Enablement**

Designed secure cloud-native enterprise solutions leveraging distributed systems, microservices patterns, and enterprise integration strategies aligned with cyber security governance frameworks and cloud-native best practices. Contributed to architecture governance initiatives including solution reviews, security-focused design considerations, and scalable enterprise solution delivery.

### **Architecture Leadership & Enterprise Collaboration**

Collaborated with business stakeholders, architects, and engineering teams to deliver scalable, resilient, and business-aligned enterprise solutions across cloud modernization and AI-driven transformation initiatives. Provided technical leadership and mentoring on distributed systems, event-driven architecture, enterprise integration, and cloud-native design principles.