Jitendra Santosh Varma Kosuri

Enterprise GenAI Architect | Solution Architecture Leader | Multi-Agent Systems | AI Transformation

Hyderabad, India

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Enterprise GenAI Architect and Solution Architecture leader with 15+ years of experience designing and delivering scalable enterprise platforms across AI systems, distributed architectures, cloud-native engineering ecosystems, and modernization initiatives.

Specialized in enterprise-grade GenAI platforms, multi-agent orchestration systems, Retrieval-Augmented Generation (RAG) architectures, AI-assisted SDLC workflows, and distributed AI systems operating under real-world enterprise constraints involving governance, observability, scalability, context management, security, and operational reliability.

Experienced in leading enterprise AI transformation initiatives across architecture strategy, platform engineering, modernization programs, workflow orchestration, and engineering enablement for large-scale enterprise environments.

Strong combination of:

- architecture leadership
- hands-on engineering depth
- distributed systems expertise
- AI platform engineering
- modernization strategy
- stakeholder collaboration

Recognized for driving practical enterprise AI adoption through scalable systems engineering and operationally grounded AI architectures.

CORE COMPETENCIES

Enterprise AI & GenAI

Enterprise GenAI Platforms • Multi-Agent Systems • RAG Architecture • AI Workflow Orchestration • Context Engineering • AI Governance • AI-Assisted SDLC • Enterprise Knowledge Systems

Architecture & Distributed Systems

Solution Architecture • Distributed Systems • Event-Driven Architecture • Cloud-Native Systems • Platform Engineering • Enterprise Modernization • Microservices • Workflow Orchestration

Leadership & Transformation

AI Transformation • Architecture Governance • Engineering Leadership • Technical Mentorship • Stakeholder Collaboration • Solution Strategy • Engineering Enablement

Cloud & Platform Engineering

AWS • Kafka • OpenSearch • Docker • Kubernetes • Distributed Retrieval Systems

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TECHNICAL SKILLS

Enterprise AI & GenAI

Enterprise AI Architecture • Generative AI • Multi-Agent Systems • Agentic Workflows • RAG Architecture • Context Engineering • AI Workflow Orchestration • AI Governance • AI-Assisted SDLC • Enterprise Knowledge Systems • OpenAI • Azure OpenAI • AWS Bedrock • LangChain • LangGraph • Microsoft Agent Framework • AgentSDK • OpenSearch

Cloud & Distributed Systems

AWS • Cloud-Native Architecture • Distributed Systems • Event-Driven Architecture • Kafka • RabbitMQ • Microservices • API Gateway • AWS Lambda • Docker • Kubernetes • CI/CD • Workflow Orchestration • Scalable Platform Engineering

Backend Engineering

Python • FastAPI • Node.js • REST APIs • Distributed APIs • SQLAlchemy • PostgreSQL • MongoDB • SQL Server • Backend Platform Development

Frontend Engineering

Angular • Next.js • React • TypeScript • JavaScript • Redux Toolkit • Material UI • SASS • Micro Frontends • Responsive Enterprise UI Engineering

Databases & Platform Technologies

PostgreSQL • Redis • MongoDB • DynamoDB • Elasticsearch • OpenSearch • Enterprise Retrieval Systems • Vector Search • Hybrid Search Architectures

Security & Identity

OAuth2 • Keycloak • JWT • RBAC • SSO • Active Directory Integration • Enterprise Authentication & Authorization

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PROFESSIONAL EXPERIENCE

EPAM Systems

Solution Architect / Enterprise GenAI Architect

Hyderabad, India | Jul 2023 – Present

Leading enterprise AI architecture and modernization initiatives focused on scalable GenAI systems, AI-native engineering workflows, multi-agent orchestration platforms, and enterprise AI transformation strategies for large-scale enterprise environments.

Key Contributions

- Architected enterprise-grade GenAI platforms supporting AI-assisted engineering and modernization workflows.
- Designed multi-agent orchestration systems for enterprise automation, migration workflows, SDLC acceleration, and distributed execution pipelines.
- Built scalable RAG architectures integrating OpenSearch, vector retrieval, enterprise knowledge systems, and contextual reasoning workflows.
- Designed event-driven AI workflows leveraging Kafka orchestration and distributed cloud-native architecture patterns.
- Led architecture reviews, AI governance discussions, platform strategy alignment, and enterprise modernization initiatives.

- Collaborated with leadership stakeholders on enterprise AI adoption, modernization strategy, and scalable AI engineering enablement.
- Mentored engineering teams on AI systems architecture, orchestration patterns, distributed systems, and scalable platform engineering.

Representative Enterprise Initiatives

- Enterprise AI-assisted SDLC transformation platforms
- Multi-agent orchestration and swarm-based execution systems
- Context-aware AI workflow and memory orchestration systems
- Enterprise knowledge retrieval and hybrid RAG systems
- AI-assisted modernization and migration frameworks
- Distributed workflow orchestration platforms leveraging Kafka and cloud-native architectures

Public Product Reference

- Contributed to enterprise AI platform initiatives including AI Jeannie Marketplace Listing

Technologies

Python, FastAPI, AWS, OpenSearch, Kafka, LangChain, LangGraph, Microsoft Agent Framework, AWS Bedrock, unsloth.ai, Next.js, PostgreSQL, Docker, Kubernetes

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Accenture

User Experience Engineering Associate Manager

(following acquisition of Imaginea Technologies)
Hyderabad, India | Jul 2021 – Jul 2023

Continued in a leadership engineering and architecture role following Accenture's acquisition of Imaginea Technologies, contributing to enterprise-scale platform engineering, modernization initiatives, distributed application architecture, and scalable cloud-native systems.

Key Responsibilities & Contributions

- Led enterprise engineering and architecture initiatives focused on scalable cloud-native platforms and distributed systems.
- Architected enterprise frontend/backend ecosystems, reusable platform components, and distributed API workflows.
- Drove engineering governance, technical mentoring, reusable architecture patterns, and modernization strategies.

- Collaborated with cross-functional stakeholders on solution architecture, platform scalability, and enterprise delivery initiatives.
- Contributed to intelligent workflow automation initiatives and early enterprise AI/ML engineering explorations.
- Guided engineering teams on maintainability, scalability, observability, and architecture best practices.

Technologies

Angular, TypeScript, Node.js, Python, FastAPI, AWS, REST APIs,Tensorflow, PostgreSQL, Docker, Kubernetes, TensorFlow

Imaginea Technologies Pvt Ltd. (Pramati Technologies)

Principal Engineer

Hyderabad, India | Oct 2017 – Jun 2021

Worked as a Principal Engineer leading architecture and development initiatives for scalable enterprise platforms, distributed web applications, cloud-native systems, and intelligent engineering solutions.

Key Responsibilities & Contributions

- Architected scalable JavaScript and cloud-native enterprise platforms supporting enterprise modernization efforts.
- Designed reusable API ecosystems and distributed application architectures across frontend and backend systems.
- Led modernization initiatives and engineering standardization efforts across enterprise application ecosystems.
- Mentored developers and guided scalable engineering and platform architecture practices.
- Explored machine learning and deep learning applications within enterprise workflows and automation initiatives.
- Improved platform scalability, maintainability, reliability, and engineering delivery workflows.

Technologies

React, Angular, Node.js, TypeScript, Python, Scikit Learn, REST APIs, PostgreSQL

Imaginea Technologies Pvt Ltd. (Pramati Technologies)

Senior Software Developer

Hyderabad, India | Oct 2015 – Oct 2017

Worked on enterprise full-stack engineering initiatives focused on scalable web applications, distributed API systems, enterprise integrations, and cloud-native platform development.

Contributions

- Built scalable frontend/backend enterprise systems and distributed web applications.
- Developed reusable APIs and enterprise service integrations.
- Worked on enterprise modernization and performance optimization initiatives.
- Contributed to intelligent automation and machine learning experimentation efforts.

Imaginea Technologies Pvt Ltd. (Pramati Technologies)

Developer Engineer

Hyderabad, India | May 2015 – Oct 2015

Contributed to enterprise application engineering focused on modern web platforms, API integrations, scalable engineering workflows, and full-stack application development.

Cognizant Technology Solutions

Senior Developer – Mobility

Chennai, India | May 2011 – May 2015

Worked on enterprise mobile web and full-stack application development initiatives focused on scalable web platforms, API integrations, responsive user experiences, and enterprise delivery workflows.

Contributions

- Developed enterprise mobile web applications and scalable frontend systems.
- Worked on REST API integrations and distributed application workflows.
- Built strong foundations in enterprise engineering, scalable application development, and delivery practices.

SELECTED AI & ARCHITECTURE INITIATIVES

Enterprise GenAI SDLC Transformation Platform

Architected AI-driven SDLC orchestration systems integrating:

- Multi-agent workflows
- Requirement elaboration
- AI-assisted issue generation
- Enterprise knowledge retrieval
- Duplicate detection
- Distributed orchestration workflows

AI Modernization & Migration Framework

Designed AI-assisted modernization systems supporting:

- Dependency extraction
- Automated migration workflows
- Multi-agent orchestration pipelines
- AI-assisted code transformation
- Distributed modernization execution

Enterprise Knowledge & RAG Platform

Designed enterprise retrieval systems integrating:

- OpenSearch hybrid retrieval
- Vector search
- Knowledge graphs
- Enterprise document ingestion
- Contextual AI reasoning workflows

LEADERSHIP & INFLUENCE

- Conducted architecture reviews and AI solution governance discussions.
- Mentored engineering teams on distributed systems and enterprise AI architecture.

- Delivered internal and external technical sessions on GenAI systems, orchestration patterns, and enterprise AI architecture.
- Speaker on Multi-Agent Systems and Enterprise AI Architecture topics.
- Collaborated with leadership stakeholders on AI transformation and modernization strategy initiatives.
- Contributed to enterprise AI proposals, solution positioning, and architecture strategy discussions.
- Published articles focused on AI systems engineering, orchestration, enterprise scalability, and operational maturity.
- Collaborated closely with EPAM Garage on multiple AI initiatives, driving innovation through experimentation and boundary-pushing across diverse domains and technologies.

CERTIFICATIONS

- Claude Certified Architect – Foundations (CCA-F)

EDUCATION

Vellore Institute of Technology

Master's Degree, Software Engineering Management

2011 – 2013 | CGPA: 8.03 / 10

Vellore Institute of Technology

Bachelor's Degree, Computer Science Engineering

2007 – 2011 | CGPA: 8.33 / 10

ADDITIONAL INFORMATION

- 15+ years of experience across enterprise engineering, solution architecture, distributed systems, cloud-native platforms, and enterprise AI engineering.
- Strong combination of architecture leadership, systems thinking, and hands-on implementation experience across complex enterprise environments.
- Proven experience driving enterprise modernization, AI transformation, scalable platform engineering, and distributed workflow orchestration initiatives.

- Deep interest in scalable AI systems, multi-agent orchestration, context engineering, distributed architectures, and operationally reliable platform design.
- Effective collaborator
- across leadership teams, architects, engineers, product stakeholders, and cross-functional enterprise delivery organizations.