

AMAN JAIN

Solution Architect – AI & Automation | GenAI & Agentic AI | Cloud Architecture

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PROFESSIONAL SUMMARY

- Solution Architect with 8.5+ years designing and delivering scalable, secure, enterprise-grade solutions spanning Generative AI, Agentic AI, cloud architecture, and full-stack platforms.
- Proven track record translating customer requirements and emerging technology trends into practical architecture blueprints, proofs of concept, and production systems across AWS and Microsoft Azure.
- Hands-on experience architecting LLM-integrated and RAG-based platforms (Azure AI Foundry, AWS Bedrock, AWS AgentCore, LangGraph, SmolAgents, Copilot Studio) alongside microservices, APIs, and event-driven data pipelines.
- Strong record of stakeholder engagement, presales support, requirement gathering, and executive-ready technical documentation.
- Experience leading engineering teams from concept through implementation while keeping performance, security, observability, and cost squarely in view.

CORE COMPETENCIES

AI / Generative AI: Azure AI Foundry, AWS Bedrock, AWS AgentCore, SmolAgents, LangGraph, Copilot Studio, R2R, LLM Integration, Prompt Engineering, RAG (Retrieval-Augmented Generation), Vector Databases, Agentic AI, Multi-Agent Orchestration, MCP (Model Context Protocol)

Platforms: Appian, AWS, Microsoft Azure

Languages: JavaScript, TypeScript, Python, HTML, Node.js

Frameworks: Flask, Django, Angular, React, Next.js, FastAPI, Express.js, TensorFlow

Databases: Neo4j, ArangoDB, Firebase, MySQL, MSSQL, PostgreSQL, MariaDB

Cloud & DevOps: Azure DevOps, Jenkins, GitHub Actions, AWS DevOps, Docker, Amazon EKS, CI/CD

Web Services: REST, SOAP

Version Control: Git, GitHub, Bitbucket

Geospatial Tools: GeoServer, QGIS, PostGIS, Whitebox Tools

IDE / Tools: Cursor, Claude Code, Kiro, VS Code, PyCharm, IntelliJ IDEA

Solutioning & Delivery: Architecture Blueprints, Proofs of Concept & MVPs, Presales & Client Demos, Requirement Gathering, Security, RBAC & Governance, Cost & Performance Optimization, Technical Documentation & Stakeholder Communication

EMPLOYMENT HISTORY

Principal Technical Consultant

Solution Architect & Lead Engineer | Jul 2024 – Present

Lead Technical Consultant

Lead Full Stack & Appian Developer | Jul 2021 – Jul 2024

Senior Consultant

Full Stack & Appian Developer Lead | Jul 2020 – Jul 2021

Consultant

Full Stack & Appian Developer | Jul 2018 – Jul 2020

Software Engineer

Android Developer | Jan 2018 – Jul 2018

PROFESSIONAL EXPERIENCE

Solution Architect — AI-Based Email Automation Platform — Holland America Line

10 months | Java, AWS, Python, GenAI, PostgreSQL

- Architected a GenAI-powered email automation platform processing 50,000+ emails/day for crew onboarding, assignments, and operations workflows, translating business requirements into a scalable multi-cloud solution (AWS + Azure).
- Designed the overall solution blueprint combining Amazon Bedrock for LLM capabilities with Azure Logic Apps for orchestration, and a microservices platform on Amazon EKS with ingress, load balancing, and auto-scaling for high availability.
- Led a configurable, low-code Agent Core framework enabling business users to build and manage AI agents directly, reducing engineering dependency and accelerating time-to-value.
- Defined the integration architecture (MCP server and third-party systems) connecting the platform to crew management and HR systems, and designed LLM-driven workflows for classification, extraction, and smart-reply generation.
- Established the security and governance framework (RBAC, secure API communication, prompt-injection and data-leakage safeguards) and defined the end-to-end CI/CD/DevOps strategy, observability, and LLM cost-tracking approach.

Solution Architect — Agentic RAG-Based Conversational AI Platform — Cofra Holdings

10 months | Azure, Python, Microsoft Foundry, SmolAgents, R2R

- Designed an end-to-end Agentic RAG architecture for enterprise knowledge retrieval, integrating LLMs, a vector database (PostgreSQL + PostGIS), and agent orchestration (SmolAgents + R2R).
- Architected a “Deep Thinking Agent” combining RAG with real-time web search for multi-step reasoning and dynamic report generation, and optimized the RAG pipeline (ingestion, embeddings, retrieval) for accuracy and low latency.
- Designed a scalable FastAPI backend on Azure App Service with Azure API Management, and led multi-channel integration into Microsoft Teams and Power Pages for enterprise-wide access.
- Established the Azure Landing Zone and supporting cloud infrastructure (Azure Functions, Blob Storage), plus RBAC, secure API, and prompt-injection safeguards; defined the performance/monitoring/cost strategy.

Solution Architect — Conversational AI Chatbot — Holland America Line

3 months | ReactJS, Copilot Studio, SharePoint, ServiceNow, Power Automate, Azure Functions, .NET Core

- Designed and delivered an AI-powered conversational architecture (Copilot Studio, agentic workflows) supporting itinerary search, booking assistance, FAQs, and live-agent handoff for a global customer base.
- Architected multi-source knowledge integration across real-time Bing search, SharePoint, and ServiceNow, plus intelligent handoff to a live-agent (NICE) calling system, and led scalable backend design on Azure Functions/.NET.

Solution Architect — AI-Based Document Generator — Cofra Holdings

3 months | Microsoft Foundry, SharePoint, MS Teams, Python, Azure

- Architected an Agentic RAG solution that automatically generates research-driven, comparative documents (e.g., mutual fund analysis), defining the conversational UI, retrieval strategy (vector + metadata + hybrid search), and feedback-loop mechanism for continuous quality improvement.

Frontend Architect — Government Digital Platforms — Saudi Arabia (Public Domain, Labor Ministry, Examination System)

27 months combined | Appian, MuleSoft, Angular, React, Vue, SQL Server

- Architected complete data models and micro-frontend solution architecture for 400+ tourism/entertainment domain services and 100 labor-ministry services, delivering full digitization within a strict 12-month timeline.
- Owned end-to-end solutioning across infrastructure setup, Linux/Windows deployment, role-based security design, and frontend delivery across three government programs.

Team Lead — Decision Management System - 7analytics

60 months | Neo4j, Angular, ArangoDB, PostGIS, AWS, GeoServer, Django

- Led a 5-person team designing a flood-risk and climate-analysis platform (ArangoDB, PostGIS, AWS SageMaker) and delivered database architecture, complex security models, etc.
- Handled big data from satellites at GeoServer with server-side caching and implemented data mining, processing, and prediction models at AWS SageMaker.

CERTIFICATIONS

- Claude Certified Associate Foundations

- AWS Well-Architected Proficient
- Amazon Bedrock, Amazon Q & AWS Generative AI (2025)
- Databricks Certified Generative AI Engineer Associate
- FastAPI — The Complete Course 2025 (Beginner + Advanced)
- Neo4j Graph Database Certificate
- Mendix Rapid Developer
- Data Analysis with pandas in Python
- Angular 11 Certificate
- Appian Certified Senior Developer
- Appian Certified Associate Developer
- Appian Level 1 Credential Certificate
- Appian Analyst Certificate
- Appian Designer Certificate

EDUCATION

BCA – Mobile Application & Information Technologies (2015 – 2018)

Poornima University

100% Scholarship (8.88 CGPA)

Senior Secondary

Mahaveer Public School

90% Scholarship (88 %)

Secondary

Agrasen Public School

(9.0 CGPA)

ADDITIONAL INFORMATION

Languages: English, Hindi

Interests: Electronic Games, Cricket