

# VK KAPOOR

Lead Cloud Architect | AWS Certified Solutions Architect - Professional  
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## PROFESSIONAL SUMMARY

AWS-certified Solutions Architect (Professional + Security Specialty) with 20+ years in cloud infrastructure, migration strategy, and enterprise IT leadership. Currently leading multi-million-dollar AWS migrations of mission-critical state systems at Deloitte, managing cross-functional engineering teams and aligning technical architecture with agency business objectives. Known for translating complex technical decisions into clear stakeholder communications and driving measurable outcomes - including \$760K/yr in FinOps savings and \$300K/yr in custom application cost reductions. Actively leveraging AI-augmented development tools to accelerate cloud delivery.

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## KEY SKILLS

**Cloud Architecture & Migration** | AWS (EC2, S3, RDS, Aurora, VPC, Direct Connect, CloudFront, ALB/NLB, Auto Scaling, Organizations, Control Tower) | Azure | Multi-Cloud, Hybrid Cloud, GovCloud, Well-Architected Framework

**DevOps & IaC** | Terraform, CloudFormation, Ansible (architecture & review), Git, CI/CD pipeline design

**Security** | IAM, Security Hub, AWS Config, Secrets Manager, Systems Manager, DISA STIG, SCAP, Zero Trust Architecture

**Containers & Virtualization** | Docker, Proxmox VE, VMware | Solution Design: Kubernetes, EKS, ECS, Fargate

**FinOps** | Cost Explorer, Trusted Advisor, CloudWatch, CloudTrail

**AI & GenAI** | AI-Augmented Development (Claude Code, GitHub Copilot), Prompt Engineering, AI Agent Orchestration (BMAD), AI Workflow Automation, Ollama

**Also:** AWS CLI, YAML, JSON | SQL Server, Oracle, MySQL | IBM Maximo, WebSphere | Linux, Windows Server, macOS | Agile, Scrum, ITIL, Jira, Confluence, ServiceNow

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## CERTIFICATIONS & EDUCATION

**AWS Solutions Architect - Professional** | **AWS Security - Specialty** | Azure Fundamentals (AZ-900) | IBM Certified - Maximo | PMP

**MBA** - Karnataka State Open University, India, 2011 | **B.Sc. Computer Science** - UMass Lowell, USA, 2005

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## PROFESSIONAL EXPERIENCE

**Specialist Master (Manager)** | Deloitte Consulting LLP | Denver, CO

Jan 2019 - Present

**Lead Cloud Architect - DPS Driver License System (DLS) Cloud Migration (State of Texas)**

2025 - Present

- Leading the strategic migration of the Texas DPS Driver License system to AWS, designing end-to-end Well-Architected infrastructure (EC2, RDS, S3, VPC, IAM, CloudWatch) with AI-driven Project Management & Application Modernization for mission-critical systems serving millions of residents
- Designing hybrid cloud connectivity and data migration architecture leveraging DMS, DataSync, and event-driven patterns for state government systems
- Managing cross-functional Agile engineering teams; defining DevSecOps requirements including STIG compliance scanning and Security Hub integration across all environments
- Collaborating with state agency stakeholders to translate regulatory requirements into secure, compliant cloud architectures using AWS Config, Systems Manager, and Secrets Manager

**Deputy Cloud Architect - TIERS Cloud Migration (State of Texas HHSC)**

Sep 2023 - 2024

- Led on-prem-to-AWS migration for the TIERS application suite; designed HA infrastructure (EC2, RDS, VPC, Transit Gateway, ALB/NLB, Auto Scaling) using the AWS Well-Architected Framework for reliability, security, and cost-effectiveness
- Led unstructured data migration workstream with hands-on NetApp ONTAP CLI administration for cluster/SVM peering and SnapMirror relationship management, migrating data to AWS FSx for NetApp ONTAP and EFS
- Drove FinOps optimization achieving ~50% cost reduction (**\$760K/yr savings**) through EC2/RDS right-sizing, Savings Plans, and Cost Explorer dashboards
- Introduced GitHub Copilot and BMAD multi-agent orchestration to the engineering team to accelerate development workflows; evaluated Amazon Bedrock and Amazon Q for AI-powered log analysis and incident triage use cases

**Cloud Solutions Architect - AWS Migration & Operations (HUD / Ginnie Mae)**

Jun 2021 - Aug 2023

- Designed AWS solution architecture (compute, storage, networking, migration) in FedRAMP-authorized GovCloud including Route 53 DNS and multi-tier VPC designs; defined requirements for reusable IaC templates and automation patterns for the engineering team
- Executed successful Disaster Recovery POC using AWS CloudEndure across GovCloud regions (West/East), validating cross-region failover capabilities for federal systems
- Automated SCAP/STIG compliance scanning and remediation; authored SOPs for infrastructure provisioning and EC2 power scheduling, maintaining continuous ATO readiness

- Managed technical backlogs and coordinated engineering teams for infrastructure modernization; provisioned and maintained AWS resources across 4 environments (dev/test/staging/prod), enabling consistent release cycles and reducing environment drift

**Technical Project Manager - Maximo (New York Power Authority)**

*Jul 2019 - May 2021*

- Managed five concurrent IBM Maximo projects including Fleet Transportation implementation, Content Server integration, and NERC CIP-013 regulatory compliance modifications across Maximo, SAP, and Ariba
- Provided technical oversight and mentoring across third-party vendor teams; coordinated cross-functional delivery spanning APM and DataSplice implementations

**Cloud Solutions Lead - Infor EAM (Internal Firm Contribution)**

*Feb 2019 - Jul 2019*

- Led AWS cloud solution design and implementation for internal Infor EAM sandbox environments; developed project plans and network architecture documentation; contributed to proposal development and RFP responses for enterprise asset management engagements

**Manager / Sr. Technical Consultant | Larsen & Toubro Infotech (at DCP Midstream) | Denver, CO**

*Oct 2014 - Jan 2019*

- Initiated and delivered custom OneTouchMAX mobile app for Maximo Work Management, saving DCP **\$300K/year** in licensing costs; supervised development teams and led requirements gathering, technical design, QA testing, and deployment
- Executed full-stack Maximo upgrade (v7.5 to 7.6) including database migration (SQL Server 2008 to 2016), IBM WebSphere 8.5x upgrade, and horizontal/vertical cluster scaling across multiple application servers
- Managed IT support operations using ITSM tools ensuring SLA adherence; implemented Maximo customizations and scheduling add-ons; planned cut-over and go-live coordination across BizTalk, PeopleSoft, and Mobility teams

**Computer Systems Analyst | Baltech Solutions, Inc. | Brambleton, VA**

*Aug 2013 - Oct 2014*

**IT Consultant | Silver Line School | Ghaziabad, India**

*Nov 2008 - Jul 2013*

**Software Engineer / Sr. Technical Support Engineer | IBM (Tivoli Software Group) | Bedford, MA**

*Sep 2005 - Oct 2008*

**AI & AUTOMATION PROJECTS**

- Built infrastructure monitoring dashboards, cloud automation solutions, and operational tooling using Claude Code (Anthropic) and GitHub Copilot for real-time visibility into infrastructure health, cost tracking, and deployment workflows
- Designed AI agent workflows using BMAD framework and Claude Code automation for automated task management, research synthesis, and productivity optimization

**Homelab & Continuous Learning:** Operate an extensive home lab environment (Proxmox VE, Docker, TrueNAS, NGINX, Home Assistant, Tailscale) for continuous hands-on experimentation with emerging cloud, AI, and automation technologies

**Languages:** English | Hindi | Punjabi | Japanese (Learning)

**Interests:** AI-Assisted Creative Tools (Music Generation, Photography) | Home Automation | Website Design | App Development (Kids AI Buddy - Homework Assistance App) | Apple Ecosystem