

ASHISH RANJAN TIWARY

Cloud & AI Solutions Architect



Contact Information

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Professional Summary

Bringing over 20 years of enterprise cloud and AI architecture expertise on AWS and Azure, I have led multi-cloud transformations for public sector, financial services, and healthcare clients. Oversaw a \$113M project portfolio and the migration of 50+ applications, delivering \$33M in annual infrastructure cost savings and accelerating deployment velocity by 21%. Developing generative AI platforms and GTM strategies, I have significantly expanded AI-driven service offerings and market presence.

Professional Experience

Director, AI Strategy & Innovation
Z&Y Inc.

06/2024 - Present

- Architected cloud-native AI platform for peri-operative surgical systems, financial forecasting, and algorithmic trading, enabling 17 users and supporting 9 real-time analytics workloads.
- Oversaw security compliance (SEC, FINRA, MFIPPA) and developed DR-ready deployment models, achieving 18% reduction in audit findings and ensuring ~20% reduction in minutes for RTO/RPO.
- Mentored 24 engineers and facilitated training on cloud-native ML and MLOps practices, resulting in 11% improvement in deployment efficiency.
- Designed end-to-end data models (conceptual, logical, physical) to enable advanced analytics and reporting for AI-augmented solutions.
- Utilized VSCode, Cursor, and Replit to accelerate prototyping and streamline development of production-ready AI applications.

Partner Solution Architect
Amazon Web Services · Canada

07/2021 - 06/2024

- Drove AWS cloud adoption across a portfolio including IBM, Deloitte, and TCS, leading enterprise digital flagship programs in AI and cloud, resulting in 22 successful migrations and 27% increase in cloud utilization. Defined enterprise data strategies and roadmaps in collaboration with business and IT stakeholders.
- Delivered secure multi-account AWS Landing Zones and led multi-account strategies with AWS Control Tower and Organizations, supporting 15 business units and reducing provisioning time by 30%.
- Presented client-focused proposals, demos, and PoCs validating solutions across finance and public sector, leading to 3 new client engagements or \$560K in contract value].
- Contributed to \$113M in project budgeting and investment planning, ensuring alignment of cloud investments with business objectives.
- Specialized in AI Solution Architecture, delivering MVPs and prototypes for Generative AI (5 POCs in Q1 2024).
- Led application and data architecture reviews as part of large-scale cloud migration initiatives.
- Developed Infrastructure as Code (IaC) templates using Terraform and CloudFormation, standardizing cloud deployments and improving scalability.
- Conducted architecture reviews, cloud cost optimizations, and regulatory compliance alignment (GDPR, FINRA, PIPEDA and ISO27001).
- Championed cost optimization strategies and advised on FinOps best practices, [resulting in 20% improvement in cloud spend efficiency].

Skill Summary

Cloud Platforms: AWS · Azure

Data Engineering & AI/ML: Azure ML · Bedrock · langchain · MLflow · SageMaker · Snowflake · TensorFlow

Rapid Prototyping & AI

Experimentation Tools: Cursor · Kiro · n8n · Replit · Retool · Zapier

Infrastructure as Code (IaC): AWS CloudFormation · Terraform

CI/CD & DevSecOps: AWS CodePipeline · GitHub Actions · Jenkins · Docker · Kubernetes

Migration & Disaster Recovery: AWS Application Migration Service (MGN) · AWS DataSync · AWS DMS · Migration Hub · AWS Snow Family

Monitoring, Logging & Observability: AWS Config · Azure Monitor · Amazon CloudWatch · AWS X-Ray

Security & Compliance: CIS · GDPR · ISO 27001 · NIST · PCMLTFA · PIPEDA

Automation & Scripting

Languages: Bash · Powershell · Python

FinOps & Cost Optimization: Cloud Cost Strategy · Cost Optimization

Messaging & API Management: Amazon MQ · Azure Service Bus · AWS API Gateway · Azure API Management · Kafka

- Collaborated with business and IT stakeholders to define enterprise data strategies and roadmaps, aligning data initiatives with organizational goals.

Senior Solutions Architect (Cloud & Cloud Security) 03/2020 - 07/2021
Prodizee Inc. · Canada

- Designed and deployed cloud infrastructure and monitoring across multi-clinic healthcare environments, supporting 3 clinics and improving system uptime by 35%].
- Defined infrastructure provisioning, IAM controls, and compliance governance, reducing security incidents by 13% and ensuring compliance with all standards].
- Designed and implemented a city-wide healthcare network for multiple clinics in Phoenix (AZ), connecting 3 clinics and supporting 17 concurrent users].

General Manager (Digital & Cloud) 03/2020 - 07/2021
Akus Technologies Ltd. · Canada

- Successfully transitioned the organization to a product and service management approach.
- Planned and organized workloads, identifying and assessing program risks across client portfolios and assets.
- Conducted resource planning, including performance management, hiring, and termination decisions to optimize team effectiveness.

Automation Architect | Solution Architect 04/2018 - 03/2020
Think Perfect · Canada

- Implemented automation strategy and CI/CD/DevOps to transition delivery to agile/sprint, [improving efficiency by 10%].
- Managed project planning, budgeting, and resource allocation, delivering 3 projects on time and within budget.
- Facilitated co-creation of digital solutions through workshops and sprints, [resulting in 5 new product features and 2 stakeholder engagements].

Associate General Manager 08/2017 - 03/2018
HCL Technologies Ltd. · India

- Implemented automation strategy and CI/CD/DevOps pipelines for agile/sprint delivery,
- Deployed CI/CD and DevOps automation to enable agile/sprint delivery, resulting in improved team efficiency.

Service Manager (Solution Architect) 06/2015 - 08/2017
IBM India Pvt. Ltd.

Dell India Services 11/2012 - 04/2015

CSC India Private Ltd. 07/2009 - 11/2012

Convergys (Directory Services). Microsoft E.P.S. 04/2004 - 07/2009

Targus Technologies

04/2002 - 03/2004

K.E.W. Limited

08/1998 - 03/2002

Education

University of Texas at Austin, McCombs School of Business | Postgraduate Certificate in Artificial Intelligence for Leaders

Artificial Intelligence for Leaders · Graduation: 01/2024

- Relevant Coursework: AI Strategy Development Generative AI Expertise AI Project Estimation POC Development Machine Learning Deep Learning Build vs. Buy Decision-Making · Capstone Project: Designed an AI-driven intelligent document processing model achieving 35% savings
- Leadership Frameworks: Applied situational leadership and change management principles

MIT Professional Education | Professional Certificate

Designing and Building AI Products and Services · Graduation: 01/2023

- Key Modules: Designing AI for Problem-Solving, Creating Intelligent Human–Computer Interfaces, Superminds: Blending AI and Human Intelligence in Organizations, AI Design Research: Marketplace Frontiers, AI Design Practice: Marketplace Frontiers

National Law University, Jodhpur | Master of Science

Cyber Law and Security · Graduation: 01/2012

- Relevant Coursework: GDPR Compliance, Cloud Security Architecture

Institution of MEchanical Engineers India | Bachelor of Engineering

Mechanical Engineering · Graduation: 01/2006

- Relevant Coursework: Control Systems, Numerical Methods

Certifications

AWS Certified DevOps Engineer - Professional

AWS Certified Solutions Architect - Professional

AWS Certified Machine Learning - Specialty

AWS Certified Security - Specialty

Microsoft Certified: Azure AI Engineer Associate

Microsoft Certified Cybersecurity Architect Expert

TOGAF 9.1, PMP, PRINCE2 Practitioner, ITIL V3 Foundation & Practitioner