

PUSHPAK PATIL



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PROFESSIONAL SUMMARY

A dynamic and results-driven **Cloud Solution Architect** with **4+ years** of progressive experience in designing, implementing, and optimising large-scale, multi-cloud infrastructure solutions for multinational corporations. Proven expertise in **AWS architecture, security, and cost management**, complemented by practical experience in **Microsoft Azure** cross-cloud migration and governance. Adept at leading cross-functional teams, driving significant cost savings (up to 60%), and achieving 100% compliance scores across critical financial and insurance sector projects. Seeking to leverage advanced cloud architecture and security skills to deliver high-impact solutions in a challenging environment.

CORE COMPETENCIES & TECHNICAL SKILLS

Category	Key Skills
Cloud Platforms	AWS (4+ Years): EC2, EKS, ECS, Lambda, S3, RDS, DynamoDB, Control Tower, Organizations, Security Hub, GuardDuty, Config. Microsoft Azure: Azure VMs, Azure Networking, Azure AD, Azure DevOps, Cross-Cloud Migration (Azure to AWS).
Architecture & Security	High-Availability (HA) & Disaster Recovery (DR), Multi-AZ/Multi-Region Design, Cloud Security Posture Management (CSPM), IAM, WAF & Shield, PCI DSS, CIS Benchmarks, ISO 27001, Security Audits & Compliance Reviews.
Infrastructure as Code (IaC)	Terraform , AWS CloudFormation, Python, Shell Scripting, Lambda State Machines, Step Functions, Policy-as-Code.
DevOps & CI/CD	Jenkins, GitHub Actions, GitLab CI, Automated Deployment Pipelines, Blue/Green & Canary Deployments, Infrastructure Testing.
AIOps & Automation	ML-based Anomaly Detection, AI-powered Incident Response, Automated Runbook Creation (LLMs), Predictive Scaling, Self-Healing Infrastructure, Real-time RCA.
Networking	VPC Design, Transit Gateway, Direct Connect, Hybrid Connectivity (VPN/MPLS), Security Groups, NACLs, Route 53, Load Balancers, Palo Alto Firewalls.
Databases & Migration	RDS (MySQL, PostgreSQL, Oracle), DMS, Database Replication & Optimisation, Cross-Cloud Migration.

PROFESSIONAL EXPERIENCE

Cloud Solution Architect

Applied Cloud Computing | Thane, India | March 2025 – Present

- Architected and led the implementation of scalable, high-availability, and disaster recovery solutions, guaranteeing business continuity and enhancing system reliability for multinational clients.
- Optimised cloud resource utilisation across client portfolios, employing advanced cost-management strategies that resulted in significant savings on cloud expenditure.
- Collaborated with cross-functional teams and OEMs to define complex cloud architecture requirements, ensuring strict alignment with business objectives and technology standards.
- Fostered a culture of continuous improvement by regularly reviewing cloud architectures and processes to identify and implement areas for enhancement.

Senior Cloud Engineer

Applied Cloud Computing | Mumbai, India | March 2022 – February 2025

- Spearheaded the design and implementation of secure, scalable, and cost-efficient AWS Landing Zones using Control Tower for major projects (SBGIC, Zuno, HDBFS).
- Conducted comprehensive Security Audits and Compliance Reviews to meet stringent regulatory and internal standards (e.g., PCI DSS, CIS).
- Drove cost-saving initiatives across clients, achieving a documented expense reduction of 20–30% through resource rightsizing and optimised billing.
- Provided 24x7 support and collaborated with teams to troubleshoot complex infra-level issues, including cloud incident resolution for IBDIC and Bandhan Bank projects.
- Mentored new joiners and conducted internal AWS training sessions to upskill junior cloud engineers.

Founder & Tutor

Elite Educare Academy | Thane, Maharashtra, India | March 2015 – March 2022 (7 years 1 month)

- Founded and managed a series of classes comprising a team of 20 teachers across the city, each possessing diverse expertise in mathematics, physics, and technology subjects.
- Over the initial three years, instructed mathematics and physics, subsequently expanding the curriculum to include cloud services, security, Linux administration, networking, and AWS.
- Imparted knowledge to over 350 students, sharpening teaching skills and deepening understanding of cloud services and security.
- Developed the ability to effectively communicate complex concepts, manage cross-functional teams, and adapt to evolving educational needs—crucial assets for success in cloud-related roles.
- **Skills:** Cloud Computing, Cloud Networking, Linux Administration, AWS, Security Fundamentals, Team Leadership.

KEY PROJECTS & ACHIEVEMENTS

Cloud Solution Architect Projects (Focus on Architecture, Migration, and AIOps)

Project	Summary & Key Achievements
Bandhan Bank	AIOps, Security Automation & Intelligent Operations Implemented an AIOps platform with ML-based anomaly detection and AI-powered root cause analysis. Built intelligent incident response with auto-remediation using AI agents and Lambda workflows. Achievement: Reduced incident response time from hours to minutes, achieved 100% audit readiness, and secured zero critical findings in external security audits.
ATLAS	AI-Powered Automated DR Orchestration Designed a fully automated Disaster Recovery solution with AI-driven health monitoring and intelligent failover/failback using Lambda State Machines. Achievement: Achieved zero-touch failover with an RTO under 10 minutes, and reduced DR testing time from 8 hours to 30 minutes.
RBL Bank	Cross-Cloud Migration (Azure to AWS) Led the migration of GitHub Enterprise Server from Azure to AWS, including version upgrade and designing optimal AWS infrastructure. Achievement: Zero data loss migration, 45% performance improvement, and 30% cost reduction compared to the previous Azure environment.
APAC	Multi-Region DR & Database Migration Architected cross-region DR with automated replication and migrated Oracle/MySQL to RDS Multi-AZ. Achievement: Achieved RTO of 15 min and RPO of 5 min, with a 100% DR drill success rate and 60% reduction in DB administration overhead.
TMF	EKS Performance Optimisation & Troubleshooting Diagnosed and resolved critical memory leaks through container profiling and fixed API throttling. Implemented HPA/VPA with optimised resource limits. Achievement: 98% reduction in OOMKilled restarts, deployment success rate improved from 60% to 99.5%, and cluster uptime of 99.95%.

Senior Cloud Engineer Projects (Focus on Implementation, Compliance, and Cost Optimisation)

Project	Summary & Key Achievements
SBIGIC	Enterprise Cloud Migration & Network Design Led end-to-end AWS migration for insurance workloads. Designed multi-AZ VPC with Direct Connect/VPN hybrid connectivity and implemented layered security. Achievement: 100+ servers migrated with 99.95% uptime, production stability achieved in 2 weeks, and MTTR reduced by 35%.
HDBFS	Compliance Automation & Cost Optimisation Built automated compliance monitoring using Config Rules and Security Hub for PCI DSS/CIS alignment. Implemented a cost optimisation framework using Lambda/Step Functions for resource scheduling and rightsizing. Achievement: Achieved 100% compliance score, 60% cost reduction, and automated weekly compliance reporting, saving 95% manual effort.
Edelweiss	Microservices Migration & Network Modernisation Rearchitected legacy monolithic applications to cloud-native microservices on EKS/Fargate. Built hybrid connectivity with Transit Gateway and automated deployments via CI/CD pipelines. Achievement: Migrated 50+ applications, reduced costs by 35%, and improved deployment frequency from monthly to daily.

CERTIFICATIONS & EDUCATION

Professional Certifications

- AWS Certified Solutions Architect – Associate
- AWS Certified Security – Specialty
- IBM Vault Automation Practitioner Advanced

Education

- Master of Science in Organic Chemistry – Mumbai University, Mumbai (2015–2017)
- Bachelor of Science in Mathematics & Computer Science – Mumbai University, Mumbai (2014–2015)

AWARDS & RECOGNITION

- Cross-Team Collaboration Excellence Award
- Excellence in Cloud Cost Management Award
- Rooky Award – Applied Cloud Computing (ACC)
- Persistence Award – Applied Cloud Computing (ACC)
- Anchor Project Excellence Award
- Organisational Growth Leader Award
- Led Disaster Recovery (DR) drills and restoration testing across client accounts
- Created 18 automations for streamlined processes and time savings