

Ing. Prateek Chauhan

CLOUD & AI ARCHITECT | CLOUD, IDENTITY & AI SECURITY

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PROFESSIONAL SUMMARY

Lead Architect at AT&T (2024 – 2026) with **20+ years** in enterprise technology, including **10+ years in enterprise cloud architecture** on Microsoft Azure and recent leadership in **Agentic AI, RAG and GenAI security**. Designs secure, resilient and supportable platforms end to end — from AI agent engines and safety gates to Azure landing zones, identity, networking, CI/CD, Infrastructure as Code and disaster recovery. Brings a security-by-design mindset grounded in Entra ID, Azure Key Vault, workload identities, Microsoft Sentinel and enterprise governance, with conceptual knowledge of enterprise PAM and secrets platforms such as Delinea Secret Server and HashiCorp Vault. Former Microsoft Certified Trainer holding Microsoft Cybersecurity Architect Expert, Azure Solutions Architect Expert and DevOps Engineer Expert certifications.

KEY HIGHLIGHTS

- Architected **Agentic AI & RAG** applications with UIs, APIs, safety gates, LangGraph agent engines and knowledge sources
- Designed an **Enterprise AI Automation Platform** (Ask Network / Planner / Ops) for GenAI firewall configuration with human-in-the-loop review
- Designed AT&T's **Azure Landing Zone & migration** architecture — hub-and-spoke, Terraform, passwordless CI/CD, Azure Policy
github.com/prateek-chauhan79/azure-landing-zone-architecture
- Designed an **AI-powered 5G network provisioning** solution improving efficiency, delivery speed and customer service
- Built a secure, automated **Azure deployment pipeline** with CI/CD and integrated monitoring
- Established a **Tier 2/Tier 3 storage team** in Bangalore; built AT&T's Azure training path — recognised with **6 AT&T awards in 4 consecutive roles**

CORE COMPETENCIES

AI Architecture & Security

Agentic AI, RAG, LangGraph, GenAI security, safety gates, scoped agent permissions, threat modelling, fine-tuning data curation, Python

Cloud Architecture (Azure)

Landing zones, hub-and-spoke, Azure Firewall, Bastion, AKS, VNets/NSGs, App Services, SQL, Cosmos DB, Synapse, hybrid, OpenStack, VMware

Identity & Access Security

Entra ID, passwordless Workload Identity Federation, RBAC, least privilege, PIM / JIT, MFA, access reviews, managed identities

Secrets & PAM

Azure Key Vault, credential lifecycle & rotation, key/certificate protection, audit trails; conceptual: Delinea Secret Server, HashiCorp Vault

DevSecOps & IaC

Azure DevOps, Terraform, CI/CD with SonarQube & secret detection, GitHub, ARM templates, Kubernetes, Container Registry

Governance & Operations

Azure Policy, Defender for Cloud, Microsoft Sentinel, Azure Monitor, DR & replication, incident/change, RCA, audit support

PROFESSIONAL EXPERIENCE

Lead Architect

AT&T · Czechia

Jan 2024 – Sep 2026

- Designed and deployed AI-driven automation and Agentic AI architectures for complex enterprise and telecommunications operational processes.
- Contributed to GenAI security and Agentic AI architecture: RAG applications with UIs, APIs, safety gates, LangGraph-based agent engines and governed knowledge sources.
- Designed an AI-powered solution for 5G network provisioning, improving process efficiency, delivery speed and customer service.
- Led data curation for AI model fine-tuning and developed scalable Python automation; supported Azure deployment pipelines, CI/CD and monitoring.
- Aligned AI architecture with business, operational and technology requirements across cross-functional teams; delivered AI knowledge sessions across AT&T.

AWARD Connection Award · Jun 2026 — company-wide recognition for SPOJIT application UX design and AI sessions across AT&T.

Principal Engineer – Azure

AT&T · Czechia

Dec 2023 – Oct 2025

- Designed and implemented an Azure deployment pipeline automating secure, reliable and scalable infrastructure and service delivery.
- Developed CI/CD pipelines, applied enterprise standards and integrated monitoring for performance optimisation and compliance-conscious delivery.

Senior Architect – Enterprise Cloud

Jul 2021 – Dec 2023

AT&T · Czechia

- ◆ Architected Azure environments: VMs, Storage, Data Lake Gen2, Load Balancer, VNets, NSGs, Azure AD, App Services, SQL, Cosmos DB, Data Factory and Synapse.
- ◆ Designed DevOps and security capabilities: CI/CD, ARM, Key Vault, Azure Monitor, Microsoft Sentinel, Azure Migrate, Recovery Services Vaults, Kubernetes, Container Registry, Terraform and GitHub.
- ◆ Led architecture tracks and coordinated storage, backup, cloud and infrastructure specialists; ensured documentation met enterprise and regulatory standards.
- ◆ Planned data-centre migrations and DR solutions; designed storage/backup architectures across EMC, HDS, HP, IBM and NetApp.

AWARD Connection Award · Sep 2021 — designed AT&T's Microsoft Azure training path for CELL (via PLE) and led the first sessions.

Architect – Enterprise Cloud

Dec 2016 – Jul 2021

AT&T · Brno, Czechia

- ◆ Designed enterprise cloud, SAN and storage solutions across Azure and AT&T/OpenStack IaaS; supported VNets, NSGs, Azure AD, Azure DevOps, ARM and Terraform.
- ◆ Architected migration, disaster recovery, replication, backup, clustering and cache-mirroring solutions; led multi-discipline project tracks.

AWARD Connection Award · May 2021 — Azure certification and training leadership, incl. organisational and ERG-sponsored sessions.

Consultant – IT Operations, Storage Hosting Systems

Jul 2012 – Dec 2016

AT&T · Brno, Czechia

- ◆ Managed enterprise SAN across EMC, HDS, HP and NetApp with Brocade/Cisco switches; replication (SRDF, ShadowImage), performance and capacity management.
- ◆ Provided end-to-end outage support, led Cisco switch upgrades and mentored new team members.

AWARD Making a Difference Award · May 2016 — roadmap optimising operational investment and efficiency, incl. reclaim automation.

AWARD Star Performance Award · Oct 2015 — built a new Tier 2/3 storage team in Bangalore; delivered a month of vendor training.

AWARD Star Performance Award · Aug 2014 — handled a data-centre power-failure storage outage through to full service recovery.

IT Specialist L2 – Senior Unix & Storage Administrator

Jun 2009 – Jul 2012

IBM · Brno, Czechia

- ◆ Administered AIX, HP-UX and Red Hat Linux with security guidelines, patching and health checks; managed incident/change, SAN zoning and LUN operations in SLA-driven environments; supported internal/external audits and RCAs.

Unix Administrator – Technical Focal Point · Natek s.r.o., Czechia

Feb 2007 – May 2009

Unix/Linux security guidelines, patching, incident/change management; coordinated a team of six and prepared RCAs.

Earlier roles · India

2000 – 2006

System Administrator, Tribal Fusion R&D (Linux/Windows, firewalls, VPN) · Technical Territory Manager / Trainer, IIHT (26 training centres; MCSE, CCNA, RHCE) · Unix Administrator / Server Specialist / Trainer, Koenig Solutions · Software Consultant, Electronics Corporation of India Ltd.

CERTIFICATIONS

Microsoft Cybersecurity Architect Expert · Sep 2023

Azure Solutions Architect Expert · Dec 2019

DevOps Engineer Expert · Aug 2020

Azure Security Engineer Associate · Apr 2021

Information Protection Administrator Associate · Sep 2021

Azure Administrator Associate · Aug 2020

Security, Compliance & Identity Fundamentals · Sep 2021

Azure AI Fundamentals · Jun 2021

Azure Data Fundamentals · Dec 2020

Azure Fundamentals · Aug 2019

Microsoft Certified Trainer (MCT) · 2020 – 2023

Exams: AZ-300, AZ-301, AZ-400 · 2019 – 2020

CCNA (Cisco) · **RHCE** (Red Hat) · **MCSE 2003**

ITIL V3 · **VMware VCP 5.0**

RECOGNITION AT A GLANCE

6 AT&T awards in 4 consecutive roles · 2014 – 2026

3 × Connection Award · 2021, 2021, 2026

Making a Difference Award · 2016

2 × Star Performance Award · 2014, 2015

LANGUAGES

English — Full Professional · Hindi — Native · Czech — Elementary · German — Elementary

EDUCATION

MSc, Computer Science — MDU · 2000–2002

Advanced Diploma in IT — IGNOU · 2000–2001

BSc, Health Education — University of Delhi · 1997–2000