# Akhil Tripathi

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## Technical Lead | Senior Software Developer

12+ years of experience delivering scalable backend systems, cloud infrastructure, and technical leadership across BFSI, Energy, and Telecom domains.

## Core Competencies

Languages: Python, Java  
Databases: PostgreSQL, MySQL, MongoDB  
Cloud: AWS (Lambda, API Gateway, RDS, EventBridge, S3, Cognito)  
Frameworks: Django, DRF, FastAPI, Flask  
DevOps/IaC: Terraform, Jenkins, GitHub Actions  
Tools: JIRA, Confluence, Docker, Kubernetes, Git  
OS: Linux, Windows  
Others: Nornir, Netmiko, Excel-VBA, Shell scripting

## Key Achievements

* Boosted HSBC’s application performance by 40% and stability by 20% through async backend optimizations.
* Cut cloud costs by 25% at HSBC by redesigning architecture using AWS-native services.
* Reduced deployment time by 40% using Terraform + Jenkins, cutting infra costs by 15%.
* Automated provisioning of 10,000+ CISCO devices/month, creating a first-of-its-kind direct-connect Python module.
* Refactored legacy code to reduce production errors by 80% and improve maintainability by 60%.
* Delivered microservices for Tier-1 bank, achieving sprint targets across 3 consecutive quarters.
* Improved data pipeline throughput by 60%; cut support tickets by 40%.
* Saved $9,000/month by building a custom CRM, eliminating third-party licenses.
* Cut reconciliation time from 48 hours to 2 hours, earning the “SuperHero Award”.
* Awarded “Star Performer” at HCL within first quarter — top 1% of the BU.
* Received HSBC’s prestigious quarterly top performer awards for two consecutive quarters.

## Professional Experience

### HSBC Software Development Pvt Ltd

Technical Lead | Sept 2023 – Present

* Developed async APIs via AWS Lambda; handled 1000+ daily requests under 200ms latency.
* Led AWS-native redesign improving efficiency by 30% and reducing cloud expenses by 25%.
* Automated RDS data sync with Lambda, eliminating manual workflows.
* Used Terraform + Jenkins to reduce deployment time by 40%.
* Acted as Agile lead, aligning deliverables with business goals.

### HCL Technologies

Technical Specialist | Nov 2022 – Sept 2023

* Built device provisioning module for CISCO, automating 10K+ monthly setups.
* Modularized legacy monolith, reducing errors by 80% and improving testability.
* Led unit testing strategy with 85%+ coverage, reducing bugs by 40%.
* Engaged with Scrum/Product/Architect teams to accelerate delivery by 25%.

### Capgemini Technology Services

Senior Developer / Technical Lead | Mar 2021 – Nov 2022

* Led a 6-member team delivering resilient AWS-based microservices for Tier-1 bank.
* Reduced manual deployment by 90% with Terraform + GitHub Actions.
* Built scalable data pipelines, improving throughput by 60%.
* Delivered APIs with <200ms latency and 99.99% uptime.
* Cut onboarding time in half by documenting SOPs.

### Carrier

Full Stack Developer | Oct 2012 – Mar 2021

* Built in-house CRM saving $9K/month in license fees.
* Increased SLA compliance by 90% via queue-based ticketing system.
* Automated legacy batch jobs from MySQL to PostgreSQL.
* Designed Excel-VBA tools reducing manual work by 40 hours/week.

## Education

2008–2012 | B. Tech | Dr. APJ Abdul Kalam Technical University | 60.7%  
2006–2007 | 12th (SSC) | Dehradun Public School, Ghaziabad | 57.8%

## Certifications

AWS Certified Developer – Associate (2021)