

# TUSHAR KAND

**Junior Cloud Engineer | AWS | Python Automation | Cloud Security**

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## PROFESSIONAL SUMMARY

Junior Cloud Engineer with 2+ years of hands-on experience supporting AWS cloud infrastructure, troubleshooting client issues, and automating processes using Python (Boto3) and AWS Lambda. Specialized in providing technical support for AWS cloud environments, monitoring system performance, resolving production incidents, and obtaining stakeholder approvals for infrastructure changes. AWS Certified SysOps Administrator and Red Hat Certified System Administrator with proven expertise in client-facing support, incident resolution, security implementations, and Python scripting with Lambda for AWS resource automation.

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## TECHNICAL SKILLS

### Cloud Platforms & Services

AWS (EC2, VPC, IAM, S3, Lambda, ALB/NLB, CloudWatch, CloudTrail, ECR, NAT Gateway, Network Firewall, VPC Flow Logs, NACL, RDS, CloudFormation, Auto Scaling)

### Automation & Scripting

Python (Boto3), Bash Scripting, Shell Scripting, AWS Lambda Functions, Terraform, Ansible

### CI/CD & DevOps Tools

Jenkins, GitHub, Bitbucket, AWS CodePipeline, AWS CodeBuild, Docker

### Monitoring & Troubleshooting

AWS CloudWatch, CloudWatch Logs, VPC Flow Logs, CloudTrail, Prometheus, Grafana, Log Analysis

### Operating Systems

Linux (Red Hat Enterprise Linux, Ubuntu, CentOS), Windows Server

### Security & Compliance

IAM Policies, Security Groups, NACLs, AWS WAF, Network Firewall, AWS Config, KMS Encryption

### Databases

Amazon RDS (MySQL, PostgreSQL), Amazon Redshift

### Ticketing & ITSM

ServiceNow, JIRA

## **PROFESSIONAL EXPERIENCE**

### **Freelance Cloud Engineer Consultant – Remote**

#### **Junior Cloud Engineer**

*September 2023 – Present*

- Designed and implemented Python automation solutions using AWS Lambda and Boto3 to automate Elastic Load Balancer (ELB) management for client projects, including automated health check configurations, target group updates, listener rule modifications, and SSL certificate renewals, reducing manual ELB configuration time by 70%.
- Developed automated RDS instance lifecycle management system using Python scripts and Lambda functions to handle scheduled creation and deletion of database instances for development and testing environments, enabling cost optimization by automatically terminating unused databases and reducing non-production RDS costs by 35%.
- Created EC2 volume storage automation workflows using Python (Boto3) and Lambda to manage EBS volume snapshots, automated volume resizing based on utilization metrics, orphaned volume detection and cleanup, and cross-region snapshot replication for disaster recovery, improving storage cost efficiency by 40%.
- Manage and resolve client requests through ServiceNow ticketing system, handling infrastructure provisioning, security configurations, performance issues, and automation requests while maintaining detailed documentation and SLA compliance.
- Monitor CI/CD pipelines using Jenkins and AWS native services, identifying and resolving pipeline failures, build issues, and deployment problems to maintain 99.5% pipeline availability and ensure continuous delivery.
- Collaborate with stakeholders to obtain approvals for infrastructure changes, security updates, and automation implementations, preparing detailed change requests and impact assessments for review.
- Troubleshoot and resolve network connectivity issues by analyzing VPC Flow Logs, configuring NACLs, Security Groups, NAT Gateways, and Network Firewall rules to ensure secure and reliable connectivity.
- Monitor cloud infrastructure health using CloudWatch dashboards and alarms, proactively identifying performance degradation, resource constraints, and security anomalies before they impact clients.
- Support development teams with pipeline configuration, container deployments, and infrastructure troubleshooting, reducing deployment failures by 50% through proactive monitoring and quick issue resolution.

# **Cloud Engineer / Linux System Administrator**

*February 2022 – March 2023*

- Supported AWS cloud infrastructure serving 80+ EC2 instances, providing daily operational support, monitoring system health, and resolving infrastructure issues with 99% uptime achievement.
- Troubleshooted and resolved client-reported issues related to application performance, connectivity problems, and resource constraints, maintaining average resolution time of 4 hours for critical incidents.
- Monitored and maintained CI/CD pipelines using Jenkins, identifying build failures, resolving configuration issues, and supporting development teams to ensure smooth deployment processes.
- Automated routine operational tasks using Python scripts, Terraform, and Ansible, reducing manual ticket resolution time by 75% and improving team efficiency.
- Obtained approvals from technical leads and project managers for infrastructure changes, preparing detailed documentation and risk assessments for review processes.
- Implemented and monitored security controls including IAM policies, Security Groups, and encryption configurations, addressing security findings and compliance gaps identified during audits.
- Provided proactive monitoring using AWS CloudWatch and Prometheus, creating custom alerts that enabled early detection of issues and reduced Mean Time to Detection (MTTD) by 60%.
- Supported development and QA teams with environment provisioning, access management, and troubleshooting requests, improving team productivity and reducing blockers.
- Administered Linux (RHEL) servers, troubleshooting system-level issues, performing log analysis, managing user accounts, and resolving performance bottlenecks.
- Participated in on-call rotation, responding to after-hours incidents and coordinating with teams to restore services quickly while documenting incident details for post-mortem reviews.

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## **KEY CLOUD PROJECTS**

### **AWS Cost Optimization & Intelligent Resource Cleanup Bot**

*December 2024 – February 2025*

- Developed serverless automation solution using AWS Lambda and Python to identify and report on orphaned AWS resources, addressing client concerns about rising cloud costs.
- Implemented automated cost analysis reporting using Boto3 SDK, generating daily insights and recommendations that helped clients make informed decisions on resource cleanup.
- Designed approval-based workflow using SNS notifications to obtain stakeholder sign-off before resource deletion, ensuring governance and preventing accidental removal of critical resources.
- Supported implementation across multiple client accounts, reducing cloud waste by 30% and improving resource utilization visibility.
- **Tech Stack:** AWS Lambda, Python (Boto3), CloudWatch, SNS, IAM, S3

## Enterprise Java Application Deployment – 3-Tier Architecture

*March 2025 – April 2025*

- Supported deployment and monitoring of production-grade 3-tier Java application using EC2, Application Load Balancer, Auto Scaling Groups, and Amazon RDS.
- Monitored application performance and availability using CloudWatch, responding to alerts and resolving issues related to scaling, load balancing, and database connectivity.
- Configured CI/CD pipeline using Jenkins and Docker for container-based deployments, troubleshooting build failures and ensuring successful releases.
- Implemented security controls including AWS WAF rules, Security Groups, and encrypted storage based on security team requirements and obtained necessary approvals for production deployment.
- Provided ongoing support for application team, resolving infrastructure-related issues and optimizing resource configurations based on performance metrics.
- **Tech Stack:** AWS EC2, ALB, Auto Scaling, RDS, WAF, CloudWatch, Jenkins, Docker, Python automation scripts

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## CERTIFICATIONS

- **AWS Certified SysOps Administrator – Associate**, Amazon Web Services (June 2024)
  - **Red Hat Certified System Administrator (RHCSA – EX200)**, Red Hat (January 2021)
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## EDUCATION

**Bachelor of Science in Computer Science**

IUBH University, Germany

*October 2022 – August 2025*

GPA: 2.5 (German grading system)

**Thesis:** Cloud Security Architecture and Best Practices for Enterprise Deployments

**Diploma in Computer Engineering**

Polytechnic, India

*September 2018 – June 2021*

Percentage: 88.86%