

# DEEPAK CHOURASIA

Cloud Engineer • DevOps Specialist • Technical Writer

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## PROFESSIONAL SUMMARY

Passionate cloud engineer and DevOps specialist with extensive experience in building scalable, secure, and efficient infrastructure solutions. Proven expertise in AWS cloud services, automation, infrastructure as code, and cybersecurity best practices. Strong background in technical writing and documentation. Adept at designing and implementing CI/CD pipelines, container orchestration, and serverless architectures. Committed to continuous learning and delivering innovative solutions that drive operational excellence.

## TECHNICAL SKILLS

**Cloud Platforms:** AWS (EC2, S3, Lambda, RDS, CloudFormation, IAM, VPC), Azure  
**Containers & Orchestration:** Docker, Kubernetes, Docker Compose  
**Programming Languages:** Python (Django, Flask), JavaScript (Node.js), Bash, PowerShell  
**Infrastructure as Code:** Terraform, CloudFormation, Ansible  
**CI/CD Tools:** Jenkins, GitHub Actions, GitLab CI, CircleCI  
**Operating Systems:** Linux (Ubuntu, CentOS, RHEL), Unix, Windows Server  
**Monitoring & Logging:** Prometheus, Grafana, CloudWatch, ELK Stack  
**Security & Compliance:** IAM, Security Groups, VPN, SSL/TLS, Vulnerability Assessment  
**Version Control:** Git, GitHub, GitLab, Bitbucket  
**Databases:** MySQL, PostgreSQL, MongoDB, Redis

## CORE COMPETENCIES

- Cloud Architecture & DevOps Engineering
- Infrastructure Security & Compliance
- Automation & Scripting (Python, Bash)
- Linux/Unix System Administration
- Performance Optimization & Troubleshooting
- Technical Documentation & Knowledge Transfer

## FEATURED PROJECTS

### AI Vendor Email Parser

Developed an automated email processing system leveraging AI/ML to extract structured data from vendor communications and intelligently manage ticketing workflows. Implemented natural language processing algorithms to categorize and route emails, reducing manual processing effort by 80% and improving response time by 60%.

*Technologies: Python, AI/ML, Email APIs, Automation*

### Vendor SLA Dashboard (Django Web Application)

Built a comprehensive Django web application for tracking vendor downtimes, calculating SLA compliance metrics, and generating detailed reports with interactive dashboards. Implemented automated data collection, real-time monitoring, and customizable alerting system that improved vendor accountability and service quality tracking.

*Technologies: Django, Python, PostgreSQL, JavaScript, Chart.js*

### **Smart AWS Scheduler (Serverless Cost Optimization)**

Designed and deployed a serverless cost optimization system using AWS Lambda to intelligently scale EC2 instances based on real-time utilization metrics. Implemented automated scheduling policies and CloudWatch integration, achieving 40% reduction in infrastructure costs while maintaining 99.9% uptime.

*Technologies: AWS Lambda, Python, CloudWatch, EC2, EventBridge*

### **Headless Home Lab Server**

Repurposed legacy laptop hardware into a full-featured home server infrastructure with Tailscale VPN for secure remote access, Samba for cross-platform file sharing, and comprehensive monitoring using Prometheus and Grafana. Demonstrated expertise in Linux administration and network security.

*Technologies: Linux, Tailscale VPN, Samba, Prometheus, Grafana, Docker*

## **PROFESSIONAL HIGHLIGHTS**

- Expertise in designing and implementing cloud-native architectures on AWS and Azure platforms
- Proficient in building robust CI/CD pipelines for automated testing and deployment
- Strong focus on infrastructure security, implementing best practices and compliance standards
- Experience with container orchestration using Kubernetes for production-grade applications
- Skilled in infrastructure automation using Terraform and configuration management tools
- Proven ability to optimize system performance and reduce operational costs
- Excellent technical documentation and knowledge sharing capabilities