SIDDHARTH AREKAR

Cloud Engineer | AWS | Linux | Networking
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PROFESSIONAL SUMMARY

Entry-level Cloud Engineer with hands-on experience in deploying and monitoring cloud-hosted applications using Amazon Web Services (AWS). Skilled in provisioning EC2 instances, configuring IAM policies, implementing CloudWatch monitoring, and managing secure cloud environments. Strong understanding of Linux systems, networking fundamentals (TCP/IP, DNS, HTTP/HTTPS), and cloud security best practices. Actively building real-world AWS infrastructure projects focused on monitoring, alerting, and system reliability.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, S3, IAM, VPC, CloudWatch, SNS, RDS – fundamentals)
Infrastructure & Networking: Virtual Private Cloud (VPC), Subnets, Security Groups, Route Tables, TCP/IP, DNS, HTTP/HTTPS, Basic Load Balancing concepts
Operating Systems: Linux (file system management, permissions, process monitoring, networking commands) Windows Server fundamentals
Monitoring & Security: CloudWatch metrics and alarms, IAM roles and policies, Shared Responsibility Model, Log monitoring, Cost awareness practices
DevOps & Tools: Git, GitHub, CI/CD fundamentals, Version control workflows, Environment configuration

EXPERIENCE

Cloud & Full Stack Developer Intern | Jul 2025 – Oct 2025
- Designed and deployed a cloud-hosted web application supporting 80+ test users, integrating frontend (Vercel), backend APIs, Firebase Authentication, and MySQL database in a secure production environment.
- Developed and optimized 5+ RESTful APIs, implementing caching and asynchronous processing, reducing redundant API consumption by 30% and improving response time by 25%.
- Enhanced database performance through indexing and query optimization, decreasing data retrieval latency by 35% and improving overall system responsiveness.
- Monitored application logs and resolved 10+ deployment and runtime issues, maintaining 90%+ uptime and ensuring stable cloud-based operations.

PROJECTS

AWS Cloud Monitoring & Alerting System (In Progress)
- Implementing infrastructure monitoring using AWS CloudWatch for EC2 performance metrics (CPU, disk, network).
- Configuring threshold-based CloudWatch Alarms and integrating Amazon SNS for automated email alerts.
- Applying IAM roles and least privilege access control for secure resource management.
- Testing alert workflows by simulating high resource utilization scenarios.

Real-Time News Aggregator – Cloud Hosted Application
- Developed and deployed a full-stack web application processing 50+ API requests per minute, integrated with CI/CD for automated deployments.
- Improved page load speed by 20–25% through frontend optimization and API response tuning.
- Configured secure environment variables and authentication workflows, ensuring secure production deployment with zero credential leaks.
- Monitored application logs and resolved deployment failures, maintaining 90% deployment success rate.

EDUCATION

Master of Computer Applications (MCA) | 2023 – 2025
REVA University, Bangalore

CERTIFICATIONS

- AWS Cloud Practitioner (In Progress)
- Microsoft Certified: Azure AI Fundamentals
- Cisco Certified Support Technician – Cybersecurity