YADHUKRISHNAN MANIKKATH MANIKANDAN

**NETWORK AND SECURITY ENGINEER**

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# PROFILE

Dynamic and detail-oriented Network & Security Engineer with hands-on experience in Linux system administration, AWS cloud infrastructure, and enterprise network security. Skilled in configuring and troubleshooting Cisco routers/switches, VLANs, routing protocols, and firewall solutions. Experienced in implementing secure architectures, intrusion detection, and user access management, with a strong foundation in cybersecurity practices. Proficient in deploying and maintaining AWS services (EC2, VPC, IAM, S3), Docker environments, and CI/CD pipelines while ensuring compliance and resilience. Seeking to contribute expertise in network administration and cybersecurity to safeguard and optimize enterprise IT environments.

# PROFESSIONAL EXPERIENCE JUNIOR SYSTEM ADMINISTRATOR

**SDC Networks – August 2024 – September 2025**

* Administered Linux and Windows servers: system updates, security patching, performance tuning
* Managed AWS infrastructure: EC2, S3, IAM, VPC, ensuring secure and scalable deployments
* Deployed and maintained VMware ESXi virtualization environments
* Automated system administration tasks using shell scripting for operational efficiency
* Implemented CI/CD pipelines using GitHub Actions for streamlined workflows
* Configured and secured Nginx and Gunicorn for production web hosting
* Deployed and managed Docker containers for application development and testing
* Handled user access control, permission management, and account provisioning
* Installed, configured, and troubleshot Cisco routers and switches
* Performed network configuration: IP addressing, VLAN setup, routing protocols
* Monitored network and system performance, detecting intrusions and resolving incidents
* Applied cybersecurity best practices: regular audits, intrusion detection, incident prevention
* Collaborated with development teams to troubleshoot infrastructure issues
* Used Git and GitHub for version control and cross-team collaboration

# TECHNICAL SKILLS

* Cloud Platforms: Amazon Web Services (AWS) - EC2, S3, IAM, VPC, Route 53, CloudWatch, CloudTrail | Network & Security: Security Groups, NACLs, AWS WAF, CloudTrail Logging
* Operating Systems & Virtualization: Linux (Ubuntu, CentOS), Windows Server Administration | VMware ESXi, Hyper-V Virtualization
* Networking: Cisco Routers & Switches, TCP/IP, VLAN, STP, IP Addressing & Subnetting | Routing Protocols (Static, OSPF, EIGRP), Network Monitoring & Troubleshooting
* Security Tools & Practices: Firewall Configuration, Intrusion Detection/Prevention Systems (IDS/IPS) | Vulnerability Assessment, SIEM, OWASP Top 10, Security Hardening
* Web & Frameworks: Python, Django, HTML5, CSS3, JavaScript, Bootstrap
* DevOps & Automation: Docker, CI/CD Pipelines, GitHub Actions, Git, GitHub | Shell Scripting (Bash, PowerShell) for Automation
* Infrastructure & Web Servers: Nginx, Gunicorn, Apache | Server Configuration, Hardening, and Performance Tuning
* Databases: MySQL, PostgreSQL, SQLite | Database Security & Access Control

# PROFESSIONAL SKILLS

* Problem Solving and Troubleshooting
* Cross-functional Collaboration
* Technical Documentation
* Time Management & Prioritization
* Attention to Detail
* Adaptability & Continuous Learning
* Process Improvement

# EDUCATION & CERTIFICATION

**Bachelor of Science (B.Sc.) in Cyber Forensics |** School of Technology and Applied Sciences, Edappally | 2021 – 2024

**AWS Certified Solutions Architect – Associate** | Issued by Amazon Web Services

# PROJECT

## www.musiciantheory.com – Full Stack Django Project

Built and deployed a Django-based educational platform independently. Integrated Google Sign-In using Django AllAuth.

Developed custom dashboards and responsive front-end interface.

Hosted on AWS EC2, using Nginx and Gunicorn for production deployment. Used MySQL for live data, Docker for local development.

Implemented CI/CD using GitHub Actions with auto-deploy workflows. Managed DNS and domain routing via AWS Route 53.

Cisco CCNA (Training Completed, 2023)

# LANGUAGES

English | Malayalam |