

John Moses F

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PROFESSIONAL SUMMARY

Entry-Level Network & Cloud Engineer with strong fundamentals in TCP/IP, OSI model, routing, switching, VLANs, and network troubleshooting. Hands-on experience in **AWS infrastructure, Linux administration, and CI/CD automation**. Skilled in performing Root Cause Analysis (RCA) and restoring network connectivity in lab-based environments. Seeking to contribute to enterprise network operations and service assurance teams.

TECHNICAL SKILLS

Systems & Networking:

- *Networking:* TCP/IP, OSI Model, IP Addressing & Subnetting, VLAN, Routing Basics, DNS, Network Troubleshooting, Packet Flow Analysis
- *Operating System:* Linux (Ubuntu/CentOS), Windows

Cloud Platforms:

- *Amazon Web Services (AWS):* EC2, VPC, IAM, S3, RDS, CloudWatch
- *Cloud Deployment:* Load Balancing, Auto Scaling

DevOps & Automation:

- *CI/CD:* GitHub Actions, Jenkins (basics)
- *Containerization:* Docker (Images, Containers), Docker Compose
- *IaC tool:* Terraform (basics)

Programming & Tools:

- Python (Basics), Bash, YAML, JSON
- MySQL, Git

PROJECTS

Enterprise Branch Network Design & Troubleshooting

Technologies: Cisco Packet Tracer, TCP/IP, VLAN, Subnetting, Routing, DNS

- Designed enterprise branch network topology with structured IP addressing plan
- Configured VLAN segmentation and inter-VLAN routing
- Implemented router and switch configurations in lab environment
- Simulated network failures and analyzed connectivity issues
- Applied OSI layer-based troubleshooting methodology
- Identified root cause of misconfigurations and restored connectivity

Cloud-Based Web Application Deployment using AWS & Docker -

Technologies: AWS EC2, Docker, GitHub Actions, Flask, Terraform

- Deployed containerized Flask application on AWS EC2 instance
- Provisioned infrastructure using Terraform (EC2, Security Groups, VPC configuration)
- Implemented CI/CD pipeline using GitHub Actions for automated build and deployment
- Configured Docker image creation and container lifecycle management
- Ensured application availability and secure access through proper port and firewall configuration

Blockchain-Based Smart Monitoring Framework for Defence Industry

Technologies: Python, Flask, SQLite, Blockchain tools

- Developed secure monitoring system with blockchain-based tamper-proof logging
- Implemented backend APIs using Flask for real-time data recording
- Integrated SQLite database for structured data storage
- Designed logic for secure data validation and transaction tracking

EDUCATION

Master of Computer Application (MCA) – 74%

06/2023 – 05/2025

Alagappa University, Karaikudi, Sivagangai, Tamil Nadu

Bachelor of Computer Science (BSc) – 74%

06/2020 – 05/2023

Arumugam Pillai Seethai Ammal College, Thirupathur, Sivagangai, Tamil Nadu

TRAINING & CERTIFICATIONS

Cloud Computing & DevOps Training — Besant Technologies (2025)

AWS Cloud Practitioner — In Progress

DevOps Certification — Programming Hub (2025)

Blockchain Technology Internship — Fantasy Solution (2025)