

MANOJ G K

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PROFILE SUMMARY

Analytical and detail-oriented MCA student with hands-on experience in Python development, cloud deployment, and DevOps practices. Proficient in designing user-focused web applications, optimizing backend logic, and maintaining code quality. Adept at working with cloud platforms, automation tools, and collaborative workflows. Strong communicator with a passion for continuous learning, systems thinking, and delivering scalable solutions.

EDUCATION

NITTE Meenakshi Institute of Technology, Bangalore

November 2024 - Present

Master of Computer Application

CGPA: 7.48

Don Bosco Degree College, Chitradurga

June 2021 - August 2024

Bachelor of Computer Application

CGPA: 8.07

PROFESSIONAL EXPERIENCE

IT Quiz Web App — [GitHub](#) | [Live Site](#)

- Built an interactive quiz platform using Flask and MySQL, engaging over 100 users within the first week
- Configured and launched the application on AWS EC2 with Nginx and Gunicorn for high reliability
- Set up Route 53 and SSL certificates to enhance domain routing and site security
- Refined backend performance, reducing response latency by 40% through logic optimization
- Integrated CI/CD pipelines using GitHub Actions and Jenkins for automated deployment and real-time debugging

AWS VPC with Secure Web Application Deployment

- Designed and implemented a robust AWS VPC architecture spanning multiple Availability Zones with public and private subnets.
- Configured Internet Gateway, NAT Gateway, and Bastion Host for secure access and controlled traffic flow.
- Deployed a web application and database on EC2 instances in private subnets, ensuring isolation and security.
- Configured an Application Load Balancer (ALB) with target groups and security groups to provide high availability, scalability, and secure access.
- Integrated DNS records in Amazon Route 53 to enable access through a custom domain name.

SKILLS

Programming & Tools:

- Java, Python (Intermediate).
- Amazon Web Services (AWS) – EC2, S3, IAM, VPC, Application Load Balancer, Route 53, Security Groups, NAT Gateway, Bastion Host.
- Git & GitHub – Version control, branching strategies, GitHub workflows.
- Docker – Image creation, container lifecycle.
- Kubernetes – Pods, Services, Deployments, Cluster management.
- Linux – Basic command-line usage, file system navigation, user and permission management, package installation, and service handling.
- CI/CD pipelines (Basic)– Jenkins, GitHub Actions.

Soft Skills:

- Problem-solving, teamwork, and communication.
- Time management and attention to detail.
- Critical Thinking.
- Self-Motivation & Curiosity.

CERTIFICATIONS

- AWS Certified Cloud Practitioner** – Jan 2025 to Mar 2025 | [Link](#)
- Cisco Certified: Networking Basics** – June 2025 | [Link](#)
- AWS Cloud Quest: Cloud Practitioner** – August 2025 | [Link](#)
- SCALER – Certificate of Excellence in DBMS** - May 2025 [Link](#)

VOLUNTEER

- Visthar NGO – Bengaluru (Jun 2025 – Present)**
Contribute weekly to eco-friendly initiatives by creating useful items from waste paper and supporting gardening activities.