Vaibhav Agarwal

+917790905888 • 15ume033@lnmiit.ac.in • linkedin.com/in/vaibhav-cloud/ • https://github.com/vaibhavagarwalcool

Result-oriented professional with a strong foundation in cloud computing and a passion for architecting scalable, secure cloud solutions. Possessing hands-on experience with AWS and DevOps tools—including infrastructure as code, CI/CD pipelines, and cloud-native technologies—I excel at translating complex business requirements into efficient, resilient systems. Eager to leverage my technical expertise and proven leadership skills to drive innovation and contribute to transformative projects in the cloud and DevOps landscape.

WORK EXPERIENCE

AWS re/Start Program

Tech Mahindra Foundation • (Jun 2024 – Sept 2024)

- Completed the 12-week AWS Restart Program, gaining a thorough understanding of cloud computing fundamentals and AWS services.

  Worked on key AWS technologies: EC2, S3, Lambda, RDS, VPC, IAM, CloudFormation, ECS, EKS, CloudWatch, Route 53.

  Devops tools: GIT, Docker, Kubernetes, Jenkins, Maven.
- Built fundamental skills in IT, including working knowledge of Linux OS, Cloud architecture design and implementation.
- Infrastructure as Code with tools like AWS CloudFormation, Terraform.
- Database migration and management.
- Linux system administration.

General Manager

Health View • (Dec 2020 – Present)

- Led a team of 10+ members, managing content for print and digital platforms, increasing engagement by 25%.
- Acquired and retained 50+ key clients, driving a 15% increase in revenue.
- Executed multi-platform marketing strategies, boosting website traffic by 30%.
- Improved financial processes, reducing payment discrepancies by 20%.
- Successfully managed budgets up to ₹5 lakh, optimizing overall cost

Assistant Workshop Manager

Super Hero Motors • (Jun 2019 – Jul 2020)

- Enhanced service operations efficiency, reducing repair turnaround time by 30%.
- Improved inventory management, decreasing stockouts by 20%.
- Increased customer satisfaction by 18% through process improvements and proactive service.
- Supervised a team of 15+ technicians, ensuring adherence to safety and quality protocols.

PROJECTS

AWS Three-Tier Architecture Project

This project demonstrates a three-tier architecture on AWS, designed to ensure high availability, scalability, and reliability.
The architecture consists of the following tiers:

1. **Web Tier**: Handles client requests and serves the front-end website.
2. **Application Tier**: Manages business logic and processes API requests.
3. **Database Tier**: Manages data storage and retrieval.
- Implemented cost-saving measures through optimized resource allocation and usage
- Enhanced system performance by leveraging AWS best practices for scalability and reliability
- Streamlined operations with automated deployments and infrastructure management

CI/CD Pipeline Implementation on AWS

- Developed an automated CI/CD pipeline to build, test, and deploy applications in a cloud environment.
- Integrated Git for version control and Jenkins to trigger automated builds and tests.
- Employed Maven for build management and SonarQube for continuous code quality checks.

Containerized Microservices Deployment

- Designed a microservices architecture to improve scalability and resilience.
- Built and deployed Docker containers, then orchestrated them using Kubernetes clusters on AWS.
- Implemented monitoring solutions with Prometheus and Grafana to track application performance and system health.
- Automated scaling and deployment updates, achieving higher availability and reduced downtime.
- Reduced deployment time by 50% and improved code quality by 30%.

Infrastructure as Code (IaC) with Terraform

- Automated the provisioning of AWS resources (such as EC2, VPC, S3) using Terraform, ensuring repeatable and consistent infrastructure deployments.
- Cut infrastructure setup time by 60%.

Kubernetes Cluster Monitoring

- Deployed a production-grade EKS cluster with auto-scaling capabilities.
- Configured Prometheus for metrics collection and Grafana dashboards for visualization.
- Reduced downtime incidents by 40% through proactive monitoring and alerting.

CORE COMPETENCIES

Cloud & DevOps

- **AWS:** EC2, S3, Lambda, RDS, VPC, IAM, CloudFormation, ECS, EKS, CloudWatch, Route 53
- **CI/CD:** Jenkins, GitHub Actions, Maven
- **Infrastructure as Code:** Terraform, AWS CloudFormation
- **Containerization & Orchestration:** Docker, Kubernetes, Helm
- **Management:** Systems Manager, Cloud Watch, Cloud Trail, AWS Config
- **Monitoring & Code Quality:** Prometheus, Grafana, SonarQube
- **Version Control:** Git
- **Operating Systems:** Linux (Amazon Linux, Ubuntu), Windows

Soft Skills

- Team Leadership
- Client Management
- Marketing
- Process Improvement

EDUCATION

Bachelor of Technology in Mechanical Engineering • (Jun 2015 – Jun 2019)

The LNM Institute of Information Technology

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS re/Start
- Python Programming
- Microsoft Office (Excel, Word, Power Point)