Omkar Mohanta

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EDUCATION

Biju Patnaik University of Technology **Dec 2021 – Jun 2025**
B.Tech Computer Science and Engineering *Odisha, India*
CGPA: 7.9/10

College of Basic Science & Humanities **July 2019 – Oct 2021**
Intermediate Science *Odisha, India*
Percentage: 89 %

SKILLS

Cloud Platform & Technologies: AWS(EC2, S3, IAM, Lambda, DynamoDB, VPC, CloudWatch), Docker, Kubernetes

CI/CD Tools: Jenkins, Github Action, AWS CodePipeline

Automation & Infrastructure as Code: Terraform, AWS CloudFormation

Programming & Scripting: Java, kotlin, Python, Shell Scripting

Tools and Software: Git, Github, Linux, Jira

EXPERIENCE

DevOps Engineer | VegaStack (PeerXP) **Mar 2026 – Present**

- Built and maintain an eight-node in-house server cluster for Docker-based application hosting, including node configuration and wired networking through a 16-port switch.
- Developed a deployment CLI that accepts a GitHub application URL, identifies a suitable cluster node, and deploys the application.
- Set up CI/CD pipelines using GitHub Actions, support Jenkins workflows, and manage application releases with automated version updates and changelog maintenance.
- Write Bash deployment scripts for developer R&D projects that use direct server deployment instead of a dedicated CI pipeline.
- Automate daily client database backups using cron, Amazon S3 uploads, and Slack notifications for successful and failed backup jobs.
- Built an availability dashboard and monitor server health using AWS CloudWatch, Coolify, and internal dashboards; review AWS activity through CloudTrail.

PROJECTS

Secure Kubernetes Application Deployment | **Jan 2026**

- Built and deployed a secure Python API using Docker, Kubernetes, Terraform, and Helm
- Enforced non-root containers while exposing port 80 using Linux capabilities
- Applied Kubernetes security hardening and resource quotas via Infrastructure as Code
- Automated deployment, validation, and CI checks with shell scripts and GitHub Actions

Automated Build & Deployment Pipeline using AWS, Jenkins, and Docker | **Oct 2025**

- Built an automated CI/CD pipeline that compiles a Java web app using Maven and deploys it to a Dockerized Tomcat server through Jenkins.
- Configured Jenkins on AWS EC2 with GitHub integration to enable continuous builds, SCM polling, and automated artifact delivery to a Docker host.
- Created custom Docker files and automated Docker image creation & container deployment to streamline the end-to-end release workflow.

CERTIFICATIONS

- Architecting Solutions on AWS - Coursera
- AWS Cloud Technical Essentials - Coursera