

Hitesh Mondal

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SKILLS

Languages: Python, Bash/Shell Scripting, SQL

CS Fundamentals: Data Structures and Algorithms (DSA), Object-Oriented Programming, Database Management Systems (DBMS), Computer Networks, System Design

Cloud & DevOps: AWS, Azure, Linux, Git, Docker, Kubernetes, Terraform, Pulumi, CI/CD, GitOps, GitHub Actions, GitLab, Jenkins, Argo CD, Prometheus, Grafana

Backend: FastAPI, REST APIs, PostgreSQL, pytest

PROJECTS & EXPERIENCE

Automated Cloud Delivery & Infrastructure Provisioning Platform | Jul 2025 – Present

GitHub Repository: github.com/HiteshMondal/devops

- Built production-ready Python and Bash deployment orchestrator for local and cloud environments, automating infrastructure lifecycle, runtime detection, debugging, inspection, and Kubernetes deployments.
- Containerized and orchestrated a Python backend application using Docker, Kustomize, and Helm, improving scalability with Kubernetes HPA to autoscale from 2–10 replicas and KEDA for event-driven autoscaling.
- Provisioned cloud infrastructure for self-healing, disaster recovery, storage, monitoring, and serverless workflows across AWS and Azure using Terraform, Pulumi, and Python; deployed EKS, AKS, and managed PostgreSQL.
- Built multi-stage GitOps pipelines using GitHub Actions and GitLab CI for continuous integration, Jenkins for CI/CD, and Argo CD for Kubernetes deployments, automating testing, container builds, security scanning, infrastructure lifecycle management, Kubernetes validation, and branch checks across 10 jobs and 14 stages.
- Developed an observability stack with Prometheus, Grafana, and Loki, creating 25+ panels and 10+ alerts for Kubernetes metrics and logs; integrated Trivy into CI/CD to scan 20+ container images for critical vulnerabilities.

System Security & Network Analysis Toolkit | Aug 2025 – Present

GitHub Repository: github.com/HiteshMondal/networking_cybersecurity

- Developed a modular Linux cybersecurity and network automation toolkit for system hardening, security monitoring, network diagnostics, threat detection, troubleshooting, and forensic data collection.
- Automated Linux security auditing and hardening using sysctl kernel parameters, iptables/UFW firewall rules, auditd monitoring, SUID/SGID and world-writable file audits, and journal/log integrity checks.
- Implemented network reconnaissance and suspicious-activity detection, including DNS analysis, socket correlation, packet capture, and malware/C2 detection using Nmap, dig, WHOIS, ss, Iof, tcpdump, TShark, and YARA.
- Built a real-time GUI monitoring dashboard for security and network telemetry, with automated report generation and email/social media sharing.
- Enabled portability across Debian/Ubuntu, Arch, and RHEL/Fedora by detecting package managers (apt, dnf, yum, pacman) at runtime and using centralized Bash configuration and reusable automation modules.

ACHIEVEMENTS

LeetCode: Solved 110+ DSA problems in Python and 30+ SQL problems.

HackerRank: Completed 40+ Shell Scripting challenges.

Killercoda, KodeKloud, and SADServers: Solved 75+ Linux, Docker, Kubernetes, infrastructure, and CI/CD labs and scenarios.

OverTheWire: Completed all Bandit levels, covering Linux administration and shell scripting fundamentals.

EDUCATION

Bachelor of Technology (B.Tech.) in Computer Science and Engineering

JIS College of Engineering, Kalyani, West Bengal | CGPA: 7.5/10 | Aug 2022 – Jul 2026

CERTIFICATIONS

AWS Cloud Practitioner Essentials | Jul 2025

Advanced Testing Practices Using AWS DevOps Tools | Jul 2025

Cisco Linux Unhatched | Jul 2026

Coursera Data Structures | Jan 2024