

Ashutosh Sonar

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Professional Summary

DevOps Engineer with 3+ years of experience designing, automating, and operating **secure, highly available cloud platforms** in AWS and Kubernetes production environments. Strong background in **CI/CD automation, infrastructure-as-code (Terraform, Ansible), Linux systems, and observability**, supporting **mission-critical workloads with 99.999% availability**. Proven ability to integrate **security-first DevOps (DevSecOps)** practices, reduce MTTR, and improve deployment reliability through automation and monitoring.

Technical Skills

- **Programming & Scripting:** Python, Bash, Shell Script, Go
- **Cloud & Infrastructure:** AWS (EC2, Lambda, S3, IAM, KMS, CloudWatch), Linux (RedHat, Ubuntu), Hybrid & Cloud Infrastructure
- **DevOps & CI/CD:** Terraform, Ansible, Docker, Kubernetes (EKS), Jenkins, ArgoCD, Git, Command-Line Tools
- **Observability & Monitoring:** Prometheus, Grafana, ELK Stack, CloudWatch, Metric & Alerting Platforms
- **Databases & Messaging:** PostgreSQL, MongoDB, Redis, Kafka
- **Security & Reliability:** DevSecOps, IAM & Secrets Management, Secure CI/CD Pipelines, Threat Modeling, Incident Response, MTTR Reduction, Zero-Downtime Deployments
- **Concepts & Practices:** Infrastructure as Code (IaC), Site Reliability Engineering (SRE), High Availability, Change Management, Secure DevOps

Experience

Florida Institute of Technology

Cloud Platform Engineer

Melbourne, Florida, USA · Jan 2026 - Present

- Design and operate **production-grade cloud and hybrid platforms on AWS** using Terraform and Linux, supporting **multi-user workloads with strict reliability and security requirements**.
- Build and maintain **automated data and analytics pipelines** on AWS and Databricks, emphasizing infrastructure automation and operational reliability using Terraform and ArgoCD, reducing data availability latency from hours to minutes.
- Modernize legacy systems by automating infrastructure provisioning and deployments with **Terraform and Ansible** across RedHat and Ubuntu environments, reducing manual operational effort.
- Implement **secure DevOps workflows** including role-based access control (IAM), secrets management, and centralized logging with **ELK**, enabling compliance and data protection for sensitive workloads.
- Optimize cloud infrastructure using reusable Terraform modules and cost-monitoring practices, improving resource efficiency and lowering operational overhead.

Graduate Research Assistant

Melbourne, FL, USA · Aug 2024 - Dec 2025

- Engineered **secure CI/CD pipelines** by integrating threat modeling and security validation into Jenkins-based workflows using Terraform and Bash automation.
- Designed and deployed **cloud-native architectures for AI/ML workloads** on AWS using Docker, Kubernetes (EKS), and Terraform, streamlining model deployment and operations.
- Supported **operational reliability and security analysis** for cloud-hosted platforms by analyzing logs, metrics, and alerts, improving early detection of system issues by **40%**.

Coriolis Technology Pvt. Ltd.

DevOps Engineer (Member of Technical Staff)

Pune, MH, India · Aug 2020 - Jul 2023

- Designed, implemented, and maintained **cloud-native CI/CD pipelines** using Jenkins, Docker, and ArgoCD, reducing deployment time and manual release effort by **50%**.
- Developed **Python and Bash automation tools** to provision, deploy, and validate applications across multiple AWS environments.
- Built and operated **high-availability Kubernetes (EKS) platforms** supporting distributed microservices, enabling **rolling upgrades and zero-downtime deployments with 99.999% availability**.
- Implemented **Infrastructure as Code (Terraform, Ansible)** to manage multi-account AWS environments, ensuring repeatable, auditable, and secure deployments.
- Integrated **security controls** including IAM policies, KMS encryption, and secrets management directly into CI/CD pipelines.
- Designed and maintained **monitoring, logging, and alerting dashboards** using Prometheus, Grafana, and CloudWatch, reducing **MTTR by 40%**.
- Participated in **incident troubleshooting, root cause analysis, and post-deployment validation**, improving platform reliability and operational readiness.
- Collaborated with cross-functional engineering teams in **Agile/Scrum environments** and produced architecture and operational documentation aligned with security and scalability best practices.

Projects

Security Threat Modeling Automation Tool

- Built a CLI-based system that recommends **hybrid threat-modeling approaches** for cloud-hosted architectures, strengthening security posture and operational reliability for AWS workloads.

LinMon – Linux Reliability & Observability Tool

- Developed a lightweight Linux monitoring utility exposing **process, CPU, memory, and disk metrics** to support operational debugging, performance analysis, and reliability investigations.

YAMLLGuard – CI/CD Security & Configuration Validation Tool

- Created a CI/CD guardrail tool to validate **YAML configuration correctness and schema compliance**, reducing misconfiguration-driven deployment failures and improving release reliability.

Education

Florida Institute of Technology

Master of Science in Computer Science

Aug 2023 - May 2025

Melbourne, FL, USA

University of Pune

Bachelor of Engineering in Computer Engineering

Aug 2016 - May 2020

Pune, India