

Ashutosh Sonar

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Professional Summary

DevOps Engineer with 3+ years of hands-on experience designing high-availability (99.999%) infrastructure and CI/CD pipelines across cloud-native environments. Proven success in automating deployments, scaling ML/AI platforms, and implementing secure-by-design DevSecOps strategies. Adept in Kubernetes, AWS (incl. SageMaker), Terraform, Jenkins, and observability stacks. Passionate about building resilient systems that support AI-powered applications.

Technical Skills

Languages: Python, Shell Script, SQL, PowerShell

CI/CD & DevOps Tools: Jenkins, Git, ArgoCD, Docker, Kubernetes, Ansible, Terraform

Cloud & Infra: AWS (EC2, Lambda, S3, IAM, SageMaker, Bedrock, CloudWatch), Linux (RedHat, Ubuntu), Windows Server

Monitoring & Logging: Prometheus, Grafana, ELK Stack

Database & Messaging: PostgreSQL, MongoDB, Redis, Kafka

Concepts: IaC, Site Reliability Engineering, Zero-Downtime Deployment, Secure DevOps, Threat Modeling, Virtualization, Agile

Experience

Graduate Research Assistant & Grader, Florida Institute of Technology – Melbourne, FL, USA Aug 2024 – May 2025

- Built threat modeling pipelines into CI/CD workflows, boosting early vulnerability detection by 40%.
- Researched AI-specific secure deployment models using STRIDE, LINDDUN for ML applications.
- Delivered technical grading for 100+ student projects in advanced software engineering and databases.

Member of Technical Staff (DevOps Engineer), Coriolis Technology Pvt. Ltd. – Pune, MH, India Aug 2020 – Jul 2023

- Architected CI/CD pipelines with Jenkins & ArgoCD, reducing manual release effort by 50%.
- Deployed scalable, self-healing services on Kubernetes clusters, supporting microservices with 99.999% uptime.
- Automated multi-env AWS infrastructure using Terraform and Ansible Tower, supporting ML pipelines.
- Developed observability dashboards via Prometheus, CloudWatch, and Grafana, cutting MTTR by 40%.
- Partnered with developers to integrate security scans and AI service readiness checks into pipelines.
- Authored developer playbooks and API references to accelerate onboarding and reduce handover times.

Intern, Hackedemist – Pune, MH, India July 2017 – June 2019

- Built an AES-encrypted enterprise storage system with sub-second transfer integrity checks.
- Integrated MQTT over AWS for IoT pipelines; enhanced packet reliability by 25%.
- Conducted 10+ technical sessions in secure coding and network defense, training 200+ participants.

Education

Florida Institute of Technology, MS Computer Science Aug 2023 - May 2025

- **Relevant Coursework:** Advanced Software Engineering, Cybersecurity, Computer Networks

Savitribai Phule Pune University, B.E Computer Engineering Aug 2016 - May 2020

- **Relevant Coursework:** Data Structures, Cyber Security, Software Engineering

Projects

Threat Model Recommender github.com/TMR

- CLI app recommending hybrid threat modeling for AI/ML systems, tested on cloud, healthcare, fintech stacks.
- Deployed via AWS EC2; reduced undetected risk by 65% through secure architecture analysis.

Encrypted Video Tampering and Localization Through Cloud github.com/vidtmp

- Engineered tamper detection system using AES and SHA-256; powered by AWS Lambda & S3 for low-cost scalability.
- Reduced cloud infrastructure cost by 25%, ensured near real-time video verification.

Custom Python Shell (Mysh) github.com/mysh

- Built a fully featured command-line shell with support for pipes, completion, and persistent history.

IDS for Software-Defined Networks Using ML github.com/IDS

- Developed an ML-driven Intrusion Detection System for SDN, achieving 95% accuracy in detecting DDoS attacks. Simulated large-scale attacks with Mininet & Ryu controllers, improving detection reliability by 30%.