Chandrashekhar H S

Tumkur, India | +91 6362137390 | chandrashekharhs653@gmail.com | LinkedIn | GitHub | Portfolio

Summary

Computer Science Engineering student specializing in Site Reliability Engineering (SRE) and infrastructure operations, with hands-on experience building observability, alerting, and incident-response systems for containerized and cloud-hosted workloads. Skilled in Linux system internals, distributed system health monitoring, and network troubleshooting, with a focus on system availability, data integrity, and rapid root-cause analysis. Experienced automating operational workflows using Python and Bash, and deploying resilient infrastructure via Docker, CI/CD pipelines, and AWS EC2.

Education

Sahyadri College of Engineering and Management (VTU) Oct 2023 – Oct 2027 (Expected)
B.E. in Computer Science and Engineering (AI & ML), Full-Time | CGPA: 8.43/10 *Mangalore, Karnataka*

- **Core Subjects:** Operating Systems, Computer Networks, Cloud Computing, Software Engineering, Artificial Intelligence & Machine Learning

Mahesh PU College (DPUE Karnataka) April 2022
12th Standard (HSC), PCMB, Full-Time | Percentage: 92.16% *Tumkur, Karnataka*

G M A High School (KSEEB) April 2020
10th Standard (SSC), Full-Time | Percentage: 86.56% *Tumkur, Karnataka*

Projects

CloudOps Observability Platform | GitHub
Docker, Prometheus, Grafana, Loki, Alertmanager, AWS EC2

- Built a containerized observability stack using Prometheus, Grafana, Loki, Alertmanager, and Node Exporter via Docker Compose, deployed on AWS EC2 to monitor the availability and health of core infrastructure workloads
- Authored custom Prometheus alert rules and configured Alertmanager severity-based routing, validated via deliberate failure testing; centralized logs with Loki/Promtail to accelerate root-cause analysis and reduce incident response time

Linux SRE Health Monitor | GitHub
Linux, Bash, Cron, Slack Webhooks, Git, GitHub

- Built a Bash-based Linux health monitor tracking CPU, RAM, disk usage, load average, network stats, and process states across distributed Linux clusters, with cron-scheduled automated reporting
- Implemented threshold-based Slack alerting to proactively surface resource and stability issues before they escalated into incidents, reducing response time to system problems

CI/CD Pipeline for Containerized Deployment | GitHub
Docker, GitHub Actions, Docker Hub, Render, Psutil

- Engineered a GitHub Actions CI/CD pipeline to test, build, and deploy a containerized service on every push, ensuring consistent and reliable delivery
- Exposed health-check and Prometheus-style metrics endpoints using Psutil for continuous operational visibility; automated deployment to Render via Docker Hub

Certifications

AWS Cloud Practitioner Essentials | Amazon Web Services

Linux Essentials Certification | Cisco Networking Academy (NDG)

Networking Basics | Cisco Networking Academy

Technical Skills

Observability & Incident Response: Prometheus, Grafana, Loki, Alertmanager, Log Analysis, Root Cause Analysis (RCA), Incident Response
Systems & Storage Internals: Linux (Ubuntu) Administration, File Systems (ext4, NTFS), Inodes, Process Lifecycle (Zombie/Orphan States), Boot Process, Resource Bottleneck Diagnosis
Networking & Protocols: TCP/IP, HTTP/HTTPS, DNS, DHCP, Subnetting, OSI Model, TCP Handshake
Cloud & Virtualization: AWS EC2, Cluster Monitoring, Docker, Docker Compose
Automation & CI/CD: Python, Bash, Cron, GitHub Actions, CI/CD
Tools: Git, GitHub, systemctl, top, ps, df, lsof