SATHWIK K

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SUMMARY

Final-year engineering student with hands-on experience supporting scalable cloud native applications on AWS and GCP. Strong in Linux, networking, cloud infrastructure, troubleshooting, incident analysis, and automation, with a customer focused approach to resolving production issues. Eager to grow as a Cloud Support Engineer in a high impact, production environment.

EDUCATION

Sahyadri College of Engineering and Management, Mangaluru   2022 - 2026
B.E. in Information Science and Engineering   *CGPA: 8.60*

SKILLS

Languages: Python, Bash.
Cloud Platforms: AWS (EC2, S3, VPC), GCP (Compute Engine, Cloud Run, IAM).
Networking: OSI model, TCP/UDP, DNS, DHCP, CIDR notation, routing, HTTP/HTTPS.
DevOps & Infrastructure: Linux, Git/GitHub, Nginx, Docker, Kubernetes, Terraform, Jenkins.
Databases: MySQL, MongoDB, Google Cloud Storage.

EXPERIENCE

Computer Vision & Analytics Intern at Infosys Springboard   Oct 2025 - Dec 2025

Designed and supported a real-time YOLO-based crowd counting system for video streams, including backend analytics, data storage, and system reliability monitoring. Developed interactive dashboards to monitor crowd density, flow, and safety metrics.

TECHNICAL PROJECTS

Scalable Generative AI Platform on Google Cloud
- Reduced deployment failure impact by 90% by architecting a decoupled microservices platform on Google Cloud, isolating resource-intensive AI models to ensure consistent user-facing uptime.
- Achieved significant resource and cost efficiency by leveraging Cloud Run's elastic, scale-to-zero model, ensuring compute resources are utilized only during active inference.

Automated System Health Monitoring and Reporting using Bash
- Developed automated monitoring and troubleshooting scripts to rapidly diagnose service outages and reduce downtime, simulating real-world customer issue resolution.
- Implemented structured logging to accelerate Root Cause Analysis (RCA) during system outages, reducing diagnosis time for critical errors.

Distributed Real-Time Media Processing Architecture
- Architected a highly available video streaming solution capable of handling dynamic traffic loads by containerizing the transcoding pipeline.
- Implemented highly available stateless frontend delivery and decoupled persistent storage patterns to ensure low latency user experience and robust system reliability.

CERTIFICATION AND ACHIEVEMENTS

- AWS Skill Builder: Cloud Practitioner Essentials
- Google Cloud Computing Foundations Certificate.
- Earned Google Cloud Skill Boost badges in GKE Management, AI Infrastructure setup, Database Migration and Application Development Environments.
- Served as Team Lead during the internship, coordinating execution and guiding technical decisions.
- Active member of the Bureau of Indian Standards (BIS), contributing to standardization and organizational initiatives.