

HARSHVARDHAN PRATAP SINGH

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with **1 year of experience** building infrastructure for observability, reliability, and automated incident response. Skilled in **Python, Flask, React, and cloud integrations** to deliver scalable, production-ready systems that improve availability and operational efficiency.

EXPERIENCE

Temperstack

SDE-1

Aug 2024 – Present

Bengaluru, IND

- Integrated Grafana and SigNoz APM to automate monitoring and alert workflows, reducing manual alert handling by **40%**.
- Deployed a Groundcover Prometheus listener to monitor Kubernetes health, cutting cluster incidents by **25%**.
- Implemented multi-channel (email + phone) critical notifications, improving response times by **45%**.
- Eliminated alert fatigue by tuning thresholds, deduplicating recurring patterns, and refining signal quality across the stack.
- Developed one-click AWS multi-account onboarding with Boto3 to standardize IAM and speed cloud integration.
- Engineered a secure S3 forward proxy (Nginx) for compliant, auditable data flows.
- Optimized PostgreSQL queries and indexes to boost performance across alerting and scheduling systems.
- Enhanced infrastructure reliability by **20%** via log-based anomaly detection and automated mitigation workflows.
- Implemented cross-cloud dashboards using React, Redux and Skote to centralize telemetry and accelerate RCA.
- Added persistent auto-save for RCA authoring using long-polling with optimistic local buffering and incremental checkpoints, guaranteeing analyst progress is preserved mid-investigation.
- Optimized API endpoints with caching and parsing improvements, achieving **47%** faster responses on high-traffic routes.

PROJECTS

• 20 Questions: Guess the Secret Word Game

Binary-search decision tree with Huffman heuristics for efficient guessing; fine-tuned LLM pipeline and PyTorch dataset processing.

• LiveBoard: Collaborative Whiteboard Platform

Real-time collaborative canvas with text, shapes, sticky notes, undo/redo, org/invite flows, and low-latency sync for team sessions.

TECHNICAL SKILLS

Backend: Python, Node, Flask, SQL

Cloud: AWS, GCP, WebSockets

Frontend: React, Redux, JavaScript, Next.js

Data: PostgreSQL, Redis, MongoDB

Monitoring: New Relic, SigNoz, Grafana, Sentry

CODING PROFILES:

LEETCODE:

Rating: 1609 | 600+ problems

GFG:

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CODEFORCES:

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EDUCATION

Kalinga Institute of Industrial Technology

B.Tech in Information Technology | GPA: 8.28/10

2020–2024

Bhubaneswar, India

Delhi Public School, Bhilai

High School | Percentage: 92%

2018–2020

Bhilai, India