

Gaurav

Backend Engineer & SRE

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PROFILE

Backend-focused engineer architecting robust systems with precision. Specializes in building production-style services and high-concurrency systems using Node.js, TypeScript, and Go, with a strong focus on system reliability and scalability.

EDUCATION

Panjab University, Post Graduate Govt. College-11 <i>Bachelor of Computer Applications (BCA)</i> – Relevant Coursework: Data Structures, Algorithms, Database Management, Web Technologies	SAS Nagar, India 2023 – 2026
G.M.S.S.S 23A <i>Senior Secondary (12th) - Non-Medical</i>	Chandigarh, India 2022 – 2023
Century Public School <i>High School (10th)</i>	India 2020 – 2021

TECHNICAL SKILLS

Languages: Go (Golang), TypeScript, JavaScript, Python
Backend: Node.js, Express, Go-Gin
DevOps & Cloud: Docker, Kubernetes, AWS, Terraform
Databases & Store: PostgreSQL, MongoDB, Redis

SELECTED SYSTEMS

- SRE-Pilot** | *Go, Docker, REST*
- Developed a production-grade backend service implementing core Site Reliability Engineering (SRE) patterns to ensure high availability and uptime.
 - Implemented circuit breakers, structured logging, and graceful degradation strategies to enhance system resilience under heavy load.
- System Monitor** | *React, Go*
- Built a real-time distributed system visualizer to aggregate metrics from multiple microservices.
 - Created a "single pane of glass" dashboard for monitoring system health and performance.
- Hyper-LB** | *Go, Networking*
- Engineered a custom application-layer load balancer exploring advanced routing algorithms beyond standard round-robin distribution.