

SOUVIK SINGHA

Aspiring Software Engineer | Backend & DevOps Enthusiast | DSA & System Design

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PROFESSIONAL SUMMARY

Final-year IT undergraduate specialising in **backend systems** and **DevOps**, with hands-on experience deploying containerised applications on **Kubernetes** using full **CI/CD pipelines**. Developed an **AI-powered incident classification pipeline** (RAG + Kafka) and an internal developer platform with **Terraform**, **Argo CD**, and **Helm**. Solved over **300 DSA problems** on LeetCode. Seeking a Backend/DevOps Engineer role to build scalable infrastructure and reliable systems.

EDUCATION

RCC Institute of Information Technology | Kolkata, India
B.Tech IT

2023 - 2027
CGPA : 7.2/10

Certifications: IBM Full Stack Software Developer Professional Certificate
• Solved **300 DSA questions** on LeetCode

Rampurhat High School (H.S) | Rampurhat, India
Higher Secondary

2020 - 2022
CGPA : 9.5/10

PROJECTS

AI Disaster Management Platform -- RESq | 🐙 Github

Mar 2026 - Jun 2026

Lead Developer

- Architected a full-stack disaster response platform with **real-time geospatial incident mapping**, load-tested to support **500 concurrent simulated users**.
 - Built a RAG-based classification pipeline that auto-triages incident severity, cutting manual review time by an estimated **60%** based on test-set comparison.
 - Designed **JWT/RBAC-secured REST APIs** with Redis caching, reducing average API response time from **220ms to 65ms**.
 - Used Kafka for asynchronous event processing, handling **1,000+ events/sec** in load tests without message loss.
 - Deployed via Docker/Kubernetes with Prometheus/Grafana monitoring and automated CI/CD, achieving a **98% pipeline success rate**.
- Technologies / Tools Used :** React, Node.js, typescript, REST API, MongoDB, Express, Redis, Kafka, Docker, Kubernetes

Internal Development Platform | 🐙 Github

Dec 2025 - Feb 2026

Lead Developer

- Built a self-service developer platform, **reducing manual deployment steps from 12 to 3** via a service catalog and dashboard.
 - Automated CI/CD with GitHub Actions and Argo CD, **cutting deployment time from 25 minutes to 6 minutes**.
 - Provisioned infrastructure as code with Terraform and Helm, **standardizing environment setup across 8 services**.
 - Implemented RBAC and centralized logging (Loki), improving deployment visibility for a **10-person engineering team simulation**.
- Technologies / Tools Used :** React, Node.js, Express, TypeScript, Next.js, PostGres, Prisma, Docker, Kubernetes, Helm, Argo, Github Action, Terraform, Prometheus, Grafana, Loki, Redis

Movie Booking System | 🐙 Github

Oct 2025 - Dec 2025

Lead Developer

- Built a full-stack booking platform handling seat selection with **zero double-booking incidents** across **200 concurrent test bookings**.
 - Designed **JWT-authenticated REST APIs** with role-based access for users/admins, validated with **40 automated test cases**.
 - Reduced booking conflict errors to **0%** via row-level locking on seat records during transaction commit.
 - Containerized with **Docker** and automated CI/CD via **GitHub Actions**, achieving a **5-minute build-to-deploy time**.
- Technologies / Tools Used :** React, Node.js, Express, MongoDB, Tailwind CSS, JavaScript, REST API, Docker, Github Actions

SKILLS

Programming Languages :	C++, Python, JavaScript, TypeScript, Go, SQL
Frameworks & Libraries :	React, Next.js, Node.js, Express, NestJS, Django, FastAPI, net.http
Tools & Platforms :	Git, GitHub, Docker, Kubernetes, Postman, Jenkins, GitHub Actions, CI/CD, Linux
Databases :	PostgreSQL, MongoDB, Redis, Elasticsearch
Soft Skills :	Communication, Leadership, Teamwork, Problem Solving, Critical Thinking
Languages :	English, Hindi, Bengali