

# Atul Soam

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## Summary

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DevOps/SRE Engineer with hands-on experience across cloud platforms (AWS, GCP), Terraform, Kubernetes, CI/CD automation, Helm, and infrastructure optimization. Delivered cost savings, deployment reliability, and observability improvements in production-grade environments. Strong foundation in full-stack development with real-world projects deployed at scale.

## Education

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**Indian Institute of Information Technology Guwahati (IIITG)**

May 2025

*B.Tech in Computer Science Engineering*

**Army Public School, Ranchi**

*PCM with Computer Science*

## Professional Experience

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**SRE/DevOps Engineer at Alteryx Inc.**

Jan 2025 – Jun 2025

*Internship*

- Architected **cost optimization workflows** by embedding **Terraform**-based scaling logic into **CI/CD pipelines** across **GCP and AWS**.
- Implemented automated scaling (up/down) across **10+ database instances and Kubernetes clusters** in Performance and Flexo environments using Lambda, eventBridge and GCP equivalents with Gitlab CI, saving approx. **\$7,000/month**.
- Stabilized Argo CD deployments by resolving sync issues from incorrect **sync-wave** annotations; applied composite Helm charts for dependency sequencing.
- Accelerated application rollout time by **2–5 minutes** through improved deployment ordering and sync optimization.
- Integrated Slack-based notifications into cluster scale-up/down automation workflows, providing real-time visibility for off-hour resource optimizations.
- Configured deployment failure monitoring using **DataDog alerts**, improving failure detection rates by **40%**.

**Cloud & Backend Engineer at IIT Bhilai** →

Jun 2024 – Aug 2024

*Smart Parking System — Cloud-Hosted MERN Application*

- Designed and deployed a smart parking system on **AWS EC2** with frontend assets served via **S3**, using the **MERN**.
- Developed **secure backend APIs** with multi-user authentication and role-based access control for admins and customers.
- Enabled real-time slot booking, payments, and management with **100+ concurrent user simulation**.
- Leveraged usage data to improve slot utilization, contributing to a projected **10% reduction in parking congestion**.

## Projects

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**Real-Time Voting Application** →

*Full Stack Developer*

- Developed a real-time voting platform using **MERN** stack with **WebSocket-based vote updates** and robust role-based authentication.
- Proposed and piloted during IIIT Guwahati **Presidential Elections**, handling **1500+ registered voters**.
- Shortened election duration from **1 day** to real-time instant counting, eliminating manual verification overhead.
- Orchestrated dynamic poll creation, audit trails, and backend scalability via **Express.js** and **MongoDB**.

## Technical Skills

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**Languages:** C++, JavaScript, Python, Java, C, Shell Scripting

**Tools:** Terraform, Kubernetes, ArgoCD, Helm, CI/CD, GCP, AWS, DataDog, Slack API, Docker, Linux, Git, MySQL

**Tech Stacks:** MERN Stack, scikit-learn

## Achievements

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- Qualified for **ACM ICPC 2024 Regionals** (Team: Algo Primes).
- Google Kickstart International Rank: **1422nd** →.
- LeetCode Top **2%** (1000+ problems solved, Max Rating: **2059**) →.
- Completed **Hacktoberfest** with multiple open-source contributions.