

SANTHOSH KUMAR V

+91 7092450203 — santhoshkumar.vt9a@gmail.com — linkedin.com/in/santhosh-kumar-v — github.com/Santhoshkumar044

EDUCATION

Bachelor of Technology in Information Technology

Chennai Institute of Technology, Chennai

Sep 2024 – Apr 2028

CGPA:8.2

EXPERIENCE

Backend Developer, Dnyx Business Solutions, India

Nov 2025

- Developed a Waste Management System designed for **Public Sector** to digitize waste lifecycle tracking.
- Implemented a robust backend to support a growing user base of **5,000+ daily active users**, ensuring reliability.
- Integrated extensible **waste categorization modules** and **state-wide digital metrics** for data-driven decision-making.

MERN Stack Developer, CITBIF – Incubation Center

May 2025 – Jun 2025

- Developed a **Centralized Event Management Platform** to orchestrate both Intra-College competitions and Inter-College events with centralized performance tracking.
- Implemented an **Automated Event Aggregator** utilizing web scraping to synchronize competition data from external sources with administrative control panel.
- Designed a **Real-Time Venue Allocation System** specifically for Inter-College events, implemented to prevent venue collisions during busy event schedules.

PROJECTS

Alloy - Kubernetes Native Continuous Deployment Orchestrator

GitHub

Technologies: Golang, Kubernetes, GitHub Actions, client-go, PostgreSQL

- Engineered a Kubernetes-native CD system in Go using the client-go SDK to **orchestrate complex production releases** and eliminate manual deployment risks.
- Implemented **Progressive Canary Deployments** with automated traffic shifting (17% → 100%) and real-time health validation, reducing the impact of failed releases.
- Orchestrated an **Automated Rollback Engine** that monitors live pod readiness and instantly reverts to the last stable state upon detecting deployment failures.
- Developed a real-time observability suite integrating **DORA metrics** and **KubeMetrics** to monitor deployment frequency and failure rates, enabling data-driven release decisions.

BOND - Secure End-to-End Encrypted Chat & Communication Platform

GitHub

Technologies: Express.js, React.js, Matrix SDK, PostgreSQL, Capacitor

- Implemented a Secure **End-to-End Encrypted (E2EE)** communication platform using the Matrix SDK, supporting real-time chat, high-fidelity audio/video calls, and encrypted file sharing.
- Developed an **Admin Monitoring Dashboard** to manage user lifecycles and analyze metadata logs while maintaining strict cryptographic privacy standards.
- Designed a Secure **In-App Browser** with an integrated AdGuard DNS management system to enforce domain filtering and **proactively block malicious scam links**.
- Collaborated on the deployment of a **Sandboxed Android Work Profile**, ensuring the application remains logically and physically isolated from personal device data.

CERTIFICATES

- AWS Cloud Quest: Cloud Practitioner**
- CCNA : Introduction to Networks**
- Introduction to Data Science**

Feb 2026

Nov 2025

Jan 2025

PLATFORM PROFICIENCY

- LeetCode:** Solved 560 problems and peak rating 1750.
- CodeChef:** 1275 Peak rating, 68121 peak global ranking.
- SkillRack:** Solved more than 200 programming problems.

TECHNICAL SKILLS

- Languages:** Java, C++, Javascript, Golang.
- Web Technologies:** HTML5, CSS3, React.js, Express.js, Gin, MongoDB, PostgreSQL.
- Development Tools:** Docker, Kubernetes, Postman, Jenkins, Git, Github.
- Domain Knowledge:** Full Stack Development, DevOps & CI/CD, Cloud Infrastructure & Automation .

ACHIEVEMENTS

- Winner - Smart India Hackathon 2025:** Developed a Secure Chat app for Ministry of Defence **Government of India**.
- Finalist - HackRx 6.0 by Bajaj Finserv:** Qualified in the online submission round & **Secured 428th rank among 1K+ teams**.

VOLUNTEERING

- Technical Event Organizer – Trojans'25:** Organized national-level technical event **CodeMania**, managing 200+ participants and coordinating event operations.
- Hackathon Organizer - Lithos 2026:** Organized and managed a national level hackathon with **140+ participants**, ensuring smooth coordination and event operation.