

# Samarth Acharya

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## EDUCATION

### Indian Institute of Information Technology Vadodara

Bachelor of Technology in Computer Science and Engineering

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming(JAVA), Database Management, Discrete Mathematics, Cryptography, Networking

*May 2027 (Expected)*

*CGPA: 8.3/10 (Till Sem IV)*

## SKILLS

**Programming Languages:** C, C++, Java, TypeScript, Go, SQL, NoSQL, Solidity

**Web Technologies:** React, Next.js, Express.js, Spring Boot, Tailwind CSS, Bootstrap

**Databases:** MongoDB, PostgreSQL, Redis, Supabase, Firebase

**Cloud & DevOps:** AWS, Docker, Kubernetes, Git, RabbitMQ, Apache Kafka

**Problem Solving:** CodeChef (2-star, 240+ problems), LeetCode (200+ problems)

## EXPERIENCE

### SDE Intern – AI Agents

*Omaverse*

*Oct 2024 – Present*

- Building **TypeScript** APIs and tools for AI agents to interact with internal systems and execute workflows.
- Integrated sandbox feature for the company, enabling secure execution environments for agent operations.
- Developing browser automation capabilities allowing agents to navigate and interact with web interfaces programmatically.

### Freelance Full-Stack Engineer

*Crida – Sports Facility Platform*

*Oct 2024 – Present*

- Providing end-to-end flow for clients using **React + Vite** frontend, managing multiple microservices deployed on **AWS**.
- Building and maintaining APIs, orchestrating microservices, and handling production deployments for facility booking.

### SDE Intern

*RackBank Datacenters*

*May 2024 – Aug 2024*

- Deployed containerized workloads, stood up Kubernetes clusters, and optimized virtualization stacks for customer environments.
- Contributed upstream to `rclone` (Zata S3 support) and built Go services with Promtail/Loki/Grafana for centralized observability.[\[View PR\]](#)
- Shipped iterative improvements to RackBank's web presence and internal tooling.

## PROJECTS

### HawkeRoute – Smart Hawker Route System

(*Flask · Celery · Redis · Twilio · Next.js · React Native*)

[[Source Code](#)]

- Orchestrated route optimization with **Flask** microservices, **Celery** workers, and **Redis** job queues.
- Delivered unified **Next.js** control panel + **React Native** runner app with **Twilio/SMTMP** alerting.

### Cloud File Manager with S3 Integration

(*Next.js · TypeScript · Express.js · Supabase Postgres · S3*)

[[Source Code](#)]

- Provisioned secure key vault in **Supabase Postgres** and desktop-like **Next.js** explorer.
- Streamed encrypted transfers through **Express + Multer** pipeline to Zata.ai **S3** buckets on VM infra.

### Expense Tracker – Kubernetes Deployment

(*Go · PostgreSQL · Docker · Kubernetes · Calico*)

[[Source Code](#)]

- Dockerized **Go** API with JWT auth + **PostgreSQL** and drove GitHub→Jenkins CI/CD.
- Ran multi-pod **Kubernetes** stack (`go-app`) with **Calico** policies, Promtail/Loki logs, and YAML IaC.

### Blockchain-enhanced, NLP-driven Database Platform

(*NLP · Solidity · Polygon zkEVM · Secure Storage*)

[[Source Code](#)]

- Built natural-language query layer with policy checks and encrypted credential vault.
- Anchored immutable audit logs via **Solidity** contracts on Polygon zkEVM.

## ACHIEVEMENTS & AWARDS

**Hackathon Achievements:** 1st Place in Web Development (IIITV Hackathon 2025), 3rd Place at HackTheMountains 5.0 (Upsurge-Labs)

**Most Valuable Player (Basketball)** – Awarded at Sahodaya Inter School Competition, demonstrating leadership and teamwork capabilities.

## ROLE OF RESPONSIBILITY

### Mentor – HACK IIITV

*IIIT Vadodara*

*Hackathon Mentor*

*Nov 2024*

- Mentored participants during IIIT Vadodara's official hackathon event – HACK IIITV.

- Assisted teams with technical direction, debugging, and refining ideas throughout the event.