

# Rohan Chandra Sen

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## EDUCATION

### Indian Institute of Information Technology

August 2023 – May 2027

Bachelor of Technology in Computer Science and Engineering

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, Typescript, JavaScript, C, GoLang, Rust, Solidity, Dart, HCL

**Frameworks:** Express.js, React.js, Next.js, NodeJS, Django, Amazon AWS

**Tools:** Postman, Docker, Kubernetes, Figma, GIT, Android Studio, Visual Studio, Blender, Replit, Notion, Remix

**Soft Skills:** Leadership, Information management, Public Speaking, Logistics Management

## EXPERIENCE

### LFX Mentorship

May 2025 – August 2025

Devops Engineer, Summer Internship

Remote

- Engineered **real-time telemetry pipeline** on **native IBM z/OS mainframe**, integrating **Hitachi Vantara storage arrays** with **Prometheus and Grafana**, enabling **80% faster root-cause analysis** via dynamic system health dashboards and live anomaly alerts under **The Openmainframe Project**.
- Developed **time-series analytics models** using Python and **z/OS REXX** for **pattern recognition** and **outlier detection**, replicating **Watson AI** capabilities and enhancing **predictive accuracy by 65%** in critical **mainframe workload monitoring**.

### Summer of Bitcoin

May 2025 – August 2025

AI developer, Summer Internship

Remote

- Contributed to open-source **Blockchain/Web3** projects – **Braidpool, ChatBTC, P2Pool, Coinswap(Citadel)**; selected for **Summer of Bitcoin 2025 with Braidpool**.
- Collaborated with a team of **5 principal developers** to architect and implement a custom **Agentic AI infrastructure** for **blockchain operations**, enabling **70% automation** in smart contract interactions, accelerating **decision-making workflows by 50%**, and laying a scalable foundation for end-to-end **blockchain process automation**.

### Code for GovTech (DMP)

May 2025 – August 2025

Blockchain Developer, Summer Internship

Remote

- Orchestrated a resilient **AWS cloud infrastructure** supporting India's national **Diabetes Management Platform** used by over **2M+ citizens** across government hospitals. Deployed scalable **EC2 Auto Scaling Groups, RDS** for patient data, and **S3-based document storage**, improving system response time by **40%** and sustaining **99.98% uptime** under peak national load.

## PROJECTS

**Decentralized Healthcare Application** | TypeScript, NextJS, Python, MongoDB, PostgreSQL, Solidity, Hardhat

- A **Web3 platform** leveraging **Blockchain and AI** to revolutionize patient-doctor interactions with **privacy, transparency, and efficiency**. Key features include **Decentralized identity management, immutable medical records, AI-powered searches, and custom tokenized payments**.
- Source Code:** <https://github.com/orgs/veil-application> **Live link:** <https://veil-app.vercel.app>

**AWS Terraform Infrastructure as Code** | AWS, Kubernetes, Terraform, HCL, VMs, Cloud, DevOps

- Automated infrastructure provisioning using **AWS** and **Terraform**, **reducing manual deployment time by 75%** and enabling scalable rollout of **Kubernetes clusters** with **custom node configurations**. Provisioned over **20 micro cloud instances** to support **high-availability DevOps workflows** using **HCL-based Infrastructure as Code (IaC)**.
- Source Code:** <https://github.com/rohansen856/aws-terraform>

## ACHIEVEMENTS

- Engineered **AWS Cloud Operations** for Government Diabetes Management system on the **Blockchain**
- 5x Hackathon Winner** at premier institutes such as **IIT Kanpur, IIT Kharagpur and IIT Roorkee**.
- Solved **300+** algorithmic problems on [Leetcode](#), [Codechef](#) and [codeforces](#)

## VOLUNTEERING

- Lead of Blockchain and Open Source initiatives of Bitbyte**, The Programming Club; conducted **30+ sessions** for **600+ students** on **DevOps** and **Data Structures**.
- Linux Foundation Decentralized Trust (LFDT) – Community Organizer**. Led and hosted **international sessions** featuring prominent blockchain experts from **North America, Europe**, and other regions.