

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 – Present

Mainframe Developer, 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 – Present

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**.

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>

Rust Microservices Architecture | Rustlang, API, Load Balancer, Rate Limiter, Redis, Kafka, Zookeeper, Git

- A high-performance, **memory-safe microservices architecture** in Rust, deploying **5 loosely coupled services** with **fault tolerance increased by 60%** to ensure seamless orchestration and **99.9% system uptime**.
- Source Code:** <https://github.com/rohansen856/rust-microservice>

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 **500+** 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**.