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

Summer of Bitcoin   May 2025 – August 2025
AI developer, Braidpool, Summer Internship   *Remote*

- 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**.

LFX Mentorship   May 2025 – August 2025
Mainframe Developer, The Open Mainframe Project, Summer Internship   *Remote*

- Selected as **1 of 100 global mentees** for the **LFX Mentorship Program (2025)**, contributing to **z/OS Performance Monitoring** under the Open Mainframe Project, optimizing performance metrics for systems **powering 70% of Fortune 500 enterprises**.

PROJECTS

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

- Engineered a full-stack decentralized healthcare platform used by over **500 test users**, enabling **100% anonymous patient−doctor interactions** through **zk-proof-based decentralized identity (DID) verification**. Deployed **custom ERC-20 token** and integrated **Web3 payment system** to ensure **zero traceability in over 1,000 test transactions**. Achieved **99.9% uptime** across distributed services
- *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*

- Engineered a high-performance, **memory-safe microservices architecture** in Rust, deploying **5 loosely coupled services** to improve backend scalability and **fault tolerance by 60%**. Integrated **Redis for caching**, **Kafka + Zookeeper for event streaming**, and custom-built **API**, **load balancer**, and **rate limiter** modules 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

- **5x Hackathon Winner** at premier institutes such as IIT Kanpur, IIT Kharagpur and IIT Roorkee.
- Organized **MLH hackathon Hackbyte3.0** and managed **400+ participants** as a part of HR.
- **Linux Foundation Decentralized Trust** (LFDT) community meetup organizer, MadhyaPradesh.
- Solved over **300+ problems** and achieved the **Pupil** rank (1207) on **Codeforces**. *rohansen856*
- **3 Star** coder on **CodeChef** platform with an overall rating of **1607**. *rohansen856*
- Solved **200+** algorithmic problems on **LeetCode** *rcsen856*