

Suryansh Rohil

+91-9355284184 | sr738@snu.edu.in | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Shiv Nadar University

B.Tech in Computer Science Engineering (6.0/10.0)

Noida, Delhi-NCR, India

Aug'23 – July'27

GOVT SR SEC SCHOOL

Class XII - HBSE (86.0%)

Chamrori, Haryana

Apr'22 – Jul'23

D.A.V CENT PUBLIC SCHOOL

Class X - CBSE (91.0%)

Raduar, Yamuna Nagar

Apr'20 – Aug'21

EXPERIENCE

Software Development Intern, *CodeClowns*

May 2025 – Current

- Undergoing hands-on training on Dwij, an AI test-prep platform, to understand its architecture, feature workflows, and development processes.
- Developed a responsive frontend for a client-facing e-commerce website, implementing dynamic product listings and integrating with backend APIs.
- Tech stack: React, Next.js, NestJS, REST APIs, MongoDB, Neo4j, Redis.

Backend Development Intern, *CodeClowns*

May 2024 – Oct 2024

- Built and optimized REST APIs, reducing response time by 25% and improving backend efficiency.
- Created a ToDo application with authentication and persistent storage.
- Tech stack: Go, Gin, MongoDB, MariaDB.

RESEARCH

MorphDAG: A Workload-Aware Elastic DAG-Based Blockchain

March 2025 - Current

- Implemented a hot account detection algorithm based on write frequency thresholds and refined hot/cold classification logic, leading to measurable performance gains under concurrent workloads.
- Achieved up to **17.48% lower latency**, with an average improvement of **12.57%** under high transaction loads and **10.94%** across mixed read-write workloads, as demonstrated by real-world benchmarks.
- Tech stack: Go (concurrency primitives), Ethereum-based synthetic workloads.

PROJECTS

AI-Powered Medical Assistant Platform

- Built a full-stack AI-driven platform for personalized health support, integrating user profiles, medical history, and chronic conditions with features like medicine safety scanning via barcode/QR analysis.
- Implemented Google SSO, dynamic onboarding/dashboard UI, emergency SOS with real-time location tracking, hospital locator, first-aid guidance, and medical data export to PDF.
- Tech stack: Next.js, React, MongoDB.

PortrayourPCB

- Developed full-stack website for a startup.
- Created an admin dashboard for pricing, order management, and customer tracking, as well as a scalable full-stack website with order booking and automated email notifications (with attachments) for a PCB design startup.
- Tech stack: Next.js, React, MongoDB.

TECHNICAL SKILLS

Languages: C/C++, Go, Java, HTML/CSS, JavaScript

Frameworks: Gin, Hyperledger Fabric, Next.js

Databases: MongoDB, MySQL, Neo4j

Developer Tools: Git, Google Cloud Platform, VS Code, Adobe After Effects