Suryansh Rohil

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EDUCATION

Shiv Nadar University   Noida, Delhi-NCR, India
B.Tech in Computer Science Engineering (6.0/10.0)   *Aug'23 – July'27*

GOVT SR SEC SCHOOL   Chamrori, Haryana
Class XII - HBSE (86.0%)   *Apr'22 – Jul'23*

D.A.V CENT PUBLIC SCHOOL   Raduar, Yamuna Nagar
Class X - CBSE (91.0%)   *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, MySQL.

Smart City Transport System
- Developed an innovative transport management system to efficiently parse and manage routes, schedules.
- Implemented RESTful APIs and integrated an interactive frontend to streamline transport data access and management.
- Tech stack: Go, Gin, MySQL, React.

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