Ronak Singh

Bachelor of Technology

Enrollment No.: BT23CSE126

Computer Science and Engineering

Visvesvaraya National Institute of Technology, Nagpur

📞 Ph-9696044258

✉ ronak.singh.vnitcsetnp@gmail.com

in LinkedIn Profile

○ GitHub Profile

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Visvesvaraya National Institute of Technology	9.53	May 2027
Grade XII (CBSE)	Manipal Public School, Lucknow	97%	March 2022
Grade X (CBSE)	Manipal Public School, Lucknow	95%	March 2020

Projects

- **Energy Trading System with B-Trees** *April 2025*

  C, B-Trees, File Handling GitHub ○

  ○ Developed a database to track energy transactions between buyers and sellers in a smart grid.

  ○ Designed the database using C Structures and implemented B-Trees of Order 4 for efficient indexing and integrated file handling to enable persistent storage of transaction records.

- **Hospital Management System** *March 2025*

  HTML, CSS, JavaScript, React.js, MySQL GitHub ○

  ○ Designed and developed frontend interfaces for a role-based system (Admin, Doctor, Patient) to manage appointments, records, emergencies, and invoices.

  ○ Built dynamic dashboards and forms with JWT-based access control integration.

  ○ Created user-friendly modules for booking appointments, viewing medical history, triggering emergency alerts, and displaying invoices.

- **Heap Management** *March 2025*

  C, Structures, Linked Lists GitHub ○

  ○ Simulated a heap memory system allowing users to dynamically allocate and free memory.

  ○ Used the **Buddy System** method to split and merge memory blocks, reducing wasted space and showing a clear visual layout of memory after each change.

Skills

- **Programming Languages**: C, C++
- **Web Development**: HTML, CSS, JavaScript, React.js
- **Databases**: MySQL
- **Tools & Technologies**: GitHub, Linux, Postman, VS Code
- **Minor**: Internet of Things (IoT)
- **Relevant Coursework**: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs)

Achievements & Positions of Responsibility

- Technical Head, **ACM Coding Club**, VNIT Nagpur *Aug 2023 – Present*
- Secured **2nd Position** in Mathematics (Dr. S. G. Ghangrekar Prize), First Year, VNIT Nagpur