Shiv Raj

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EDUCATION

Course	College / University	Year	CGPA / %
B.Tech (Computer Science Engineering)	**Netaji Subhas University of Technology, Delhi**	**2022-2026**	**7.45**
Bihar Board (Class XII)	A.N College, Patna	2021	83%
CBSE Board (Class X)	Saraswati Vidya Mandir, Sitamarhi	2019	92%

INTERNSHIP

- **Full Stack Developer intern | Labmentix** **March 2025 - May 2025**
  - Implemented secure **JWT based authentication** with **role based access control (RBAC)**, reducing unauthorized access attempts by **45%** and implementing session tracking with automated token expiration policies.
  - Designed **request throttling middleware** with **rate limiting**, preventing API abuse and maintaining **99% uptime** during **5,000+** concurrent user sessions.
  - Collaborated with 3-member frontend team to define **RESTful API contracts**, reducing integration bugs by **60%** and ensuring seamless client-server data flow across **15+ endpoints**.
  - Tech Stack: Node.js, Express.js, JWT, REST APIs, Rate Limiting Middleware, GitHub, Postman.

PROJECT

- **Nutriwise - AI powered Nutrition Application** Source Code | Live
  - **Achieved Rank 1 among 120+ teams in Food-o-Scope FORK IT Hackathon 2024** by **IIIT Delhi**, competing against top engineering colleges nationwide.
  - Developed full-stack AI nutrition tracker serving **20+ users**, delivering personalized meal plans based on dietary preferences, health goals, and AI-powered food image analysis with **88% accuracy**.
  - Built proprietary calorimetric database with **1,000+ food items**, integrated Gemini AI for real time recipe generation, and implemented community sharing feature with **5+ user generated recipes**.
  - Tech Stack: Next.js, TypeScript, Tailwind CSS, PostgreSQL, Prisma ORM, Vercel.

- **Real-Time Chat Application** Source Code
  - Built real-time chat platform supporting **private and group messaging** with low-latency bi-directional communication using Socket.IO.
  - Implemented secure **authentication using JWT** along with JWT-protected APIs and socket authorization for authenticated messaging.
  - Architected scalable group chat features including **admin roles, member permissions, typing indicators, join/leave events**, and automatic socket reconnection handling.
  - **Tech Stack:** React.js, Express.js, MongoDB, Socket.IO, Cloudinary, Tailwind CSS.

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript, TypeScript.
- **Frontend:** React.js, Next.js, Tailwind CSS.
- **Backend:** Node.js, Express.js, WebSockets (Socket.io).
- **Databases:** PostgreSQL, MySQL, MongoDB, Prisma ORM.
- **Core CS Fundamentals:** Data Structures & Algorithms, System Design, DBMS, OOPs, Operating Systems, Computer Networks.
- **Tools & Cloud:** Git/GitHub, Postman, VS Code, AWS, Docker.
- **Soft Skills:** Problem-Solving, Team Collaboration, Quick Learner, Fluent in Hindi.

ACADEMIC ACHIEVEMENTS

- **Hackathon Winner:** 1st Place in Food-o-Scope FORK IT Hackathon 2024, IIIT Delhi (120+ teams).
- **NVIDIA Certification:** Completed course on neural networks and deep learning fundamentals. View Certificate
- **Competitive Programming:** Solved **950+ problems on LeetCode**, 200+ on GeeksforGeeks and 200+ on Naukri.com.
- **JEE Mains 2022:** Secured **99+ percentile** among **1.2 million** candidates nationwide.

POSITIONS OF RESPONSIBILITY

- **Core Team Member | DevComm (Developer's Community, NSUT)** August 2023 - Present
  - Organized **5+ technical events** including coding contests and hackathons with **100+ participants**.
  - Mentored **25+ juniors** in web development (React, Node.js) and DSA problem solving, conducting weekly doubt clearing sessions and code review workshops.