SUBRAJEET MAHARANA

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EDUCATION

National Institute of Technology, Jamshedpur   Jharkhand, IN
Master of Computer Applications - 8.22 CGPA   *Aug. 2022 – May 2025*

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, TypeScript, Golang, Bash

Frontend Technologies: HTML, CSS, Tailwind CSS, React.js, Next.js, Recoil

Backend & Database: Node.js, Express.js, MongoDB, SQL (PostgreSQL, MySQL), RESTful APIs, Git

Blockchain Technologies: Ethereum, Solidity, Ether.js, IPFS, Truffle, Remix IDE, Cryptography

Cloud & DevOps Tools: AWS, Cloudflare Workers, Docker, Kubernetes, CI/CD Pipelines, Linux, YAML

Key Coursework: OOP, DBMS, Networking, OS, Data Structures & Algorithms (DSA), Software Engineering

PROJECTS

MRP (MCA Records on Placements) | *Next.js, MongoDB, Node.js, JWT, Shadcn UI*   *July 2024 – Oct 2024*
- Created a collaborative platform for students to share interview experiences with secure user authentication.
- Designed an interactive dashboard enabling users to browse, view, and contribute placement insights.
- Integrated a feature for generating social media-ready posters, boosting community engagement.

DigiArogya | *Ethereum, Solidity, IPFS, IBFT, Ether.js, React.js*   *Aug 2024 – Dec 2024*
- Developed a decentralized healthcare record management system for privacy-focused data sharing.
- Leveraged IPFS for off-chain encrypted storage with metadata secured through Ethereum smart contracts.
- Delivered a proof-of-concept integrating IBFT consensus for seamless and efficient transaction processing.

iCompressor | *C++, Trie Data Structure, Command-Line Application, Header Files*   *Feb 2023 – April 2023*
- Designed a command-line text compression tool achieving an average **40%** compression ratio.
- Employed Trie data structures for optimal data indexing, enhancing speed and reducing file sizes.
- Provided dictionary extensibility to enable customizable compression and improved performance.

Proxy Load Balancer | *Golang, Round-Robin Algorithm*   *May 2024 – June 2024*
- Built an HTTP proxy load balancer that efficiently distributed incoming traffic to backend servers.
- Implemented a robust round-robin algorithm for enhanced scalability and fault tolerance.

ACHIEVEMENTS

Codeforces: Solved over 250 problems, consistently improving problem-solving, and reached a maximum rating of **1153**.

Codechef: Attained the status of a **2-star programmer** with a peak rating of **1498**, solving diverse algorithmic challenges.

Leetcode: Solved around 200+ problmes with a contest rating of **1554** through participation in contests.

NIMCET: Secured All India Rank of **501** out of 15,000+ participants in the highly competitive MCA entrance exam.

Achieved **AIR 129 and AIR 29** in CodeWalkerz and CodeRush respectively, national-level coding competitions.

LEADERSHIP

Training and Placement Coordinator, NIT Jamshedpur   *Aug 2023 – Present*
Organized campus recruitment drives and partnerships with top-tier companies to ensure robust placement opportunities.

Vice President at E-Cell, NIT Jamshedpur   *April 2023 – April 2024*
Led Business Conclave 2023 with over 2000 attendees, featuring industry experts such as Shikhar Goel (GFG CTO), Deep Kakkad, Nachiket Bhatia, and facilitated BizBoost & Case-a-thon 1.0, empowering 550+ entrepreneurs and students.