Manish Kumar Yadav

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PROJECTS

Algofy   EJS, JavaScript, Express.js, PostgreSQL
DSA Progress Tracker Web Application — View Source

- Developed an interactive DSA tracking tool used by **50+ users**, featuring a sortable question table with status labels (Solved, Unsolved, In Progress), improving visibility of completion rate by **75%**.
- Implemented goal-setting features supporting **daily, weekly, and monthly targets**, helping users track up to **100+ problems/month**, with real-time progress bars and milestone alerts that increased consistency by **60%**.
- Integrated **EJS templating** with Express.js to deliver fast-loading and responsive UIs; optimized template reuse to reduce code duplication by **30%**, enhancing maintainability.

Trend Edge   HTML, JS, Node.js, Express.js, MongoDB, Chart.js
20-DMA Investment Tracker — View Source

- Developed a full-stack **MERN application** to analyze over **500+ stocks and ETFs** using the **20-day Moving Average (20-DMA)** strategy; backend computes real-time crossover signals to flag **buy/sell** opportunities with over **92% uptime**.
- Integrated **Alpha Vantage API** to fetch live financial data at **1-minute intervals**, calculating and comparing 20-DMA crossover trends across **multiple tickers** with latency under **500ms**.
- Built responsive dashboards using **Chart.js** to visualize **price trends, technical indicators**, and crossover events, helping users improve investment decisions with **60% better signal clarity**.
- Enabled **real-time visual updates** through efficient frontend-backend sync, supporting up to **1,000 chart renders/day** with technical overlays and live refresh capabilities.

SecurePass   C++, File I/O, Custom XOR Encryption
Encrypted Offline Password Manager — View Source

- Developed a standalone **C++ application** to securely manage over **150+ login credentials** offline using custom-built encryption algorithms; ensured **100% local storage security** with zero network dependencies.
- Implemented **Master PIN Authentication** with encrypted hash verification; tested against **50+ brute-force patterns**, blocking unauthorized access with **100% detection accuracy**.
- Applied a custom **XOR Cipher with multi-key encoding** to encrypt credentials in real-time, improving file-level data security by **90%** compared to plaintext storage.
- Integrated a **cryptographically secure password generator** capable of producing over **10,000+ unique combinations**, with support for 4 strength levels (length, case, numbers, symbols) and adjustable entropy thresholds.

EDUCATION

National Institute of Technology, Jamshedpur   Aug 2023 - present
B.Tech - Electrical Engineering - CGPA: 7.71   *Jharkhand, India*

SKILLS

- **Languages**: C/C++, Python, JavaScript
- **Web**:Html,Css Reactjs, NodeJs,Expressjs, MongoDB, PostgreSQL, REST API
- **Tools**:Git , GitHub, Postman, Docker
- **CS Fundamentals**: DSA, Computer Networks, OOPs, OS, DBMS

ACHIEVEMENTS

- Solved 200+ coding problems on platforms like **LeetCode**, GFG, and **Codeforces**.
- Certificate of **Full Stack Web Development Bootcamp – Udemy**.
- **5* at Hackerrank** in Problem Solving.
- Participant at **Smart India Hackathon 2024**
- **Finalist - Pixel Sync Hackathon** at OJASS, NIT Jamshedpu
- **Participant, Sparkathon 2025** – competed in a national-level innovation hackathon showcasing problem-solving and technical skills.