

Manas Patel

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SKILLS

Languages: C/C++, Python, Java, JavaScript, SQL.
Web Technologies: React.js, Node.js, Express.js, HTML, Tailwind CSS.
Core CS Concepts: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating System.
Tools/Platforms: N8N, Automation Anywhere, MySQL, MongoDB, Tomcat, vercel, render, Blue Prism
Soft Skills: Critical Analysis, Task Planning, Team Collaboration, Communication

PROJECTS

Portfolio Website | [Github Link](#) Feb' 26 - Mar' 26

- Designed and developed a personal portfolio website using HTML, Flask, CSS, and JavaScript with a clean, responsive UI.
- Structured sections for About, Skills, Certifications, and Contact, ensuring easy navigation and professional presentation. Implemented form validation, responsive design principles, and SEO-friendly practices.
- Deployed the site on Render for live accessibility, optimizing performance and cross-device compatibility. Added GitHub integration to showcase real-time projects and maintain version control.

Water Quality Monitoring and Motor Control System | [GitHub Link](#) Sep' 25 - Nov' 25

- Developed an IoT-based water quality monitoring simulation generating real-time pH, turbidity, and DO data.
- Applied ML models (Neural Networks, XGBoost, Random Forest, Ensemble Voting) for anomaly detection and classification.
- Implemented automated motor control based on predictive safety thresholds.
- Built a Flask dashboard for real-time visualization, alerts, and system logs.

Tech Used: Python, Flask, Scikit-learn, XGBoost, Pandas, NumPy, Machine Learning, IoT Simulation.

CPU Scheduling Algorithm | [Github Link](#) Apr' 25 - May' 25

- Engineered a CPU scheduling algorithm using Shortest Remaining Time First (SRTF) based on DVFS to save power without sacrificing performance.
- Created an interactive simulation web application to visualize the process execution, scheduling decisions, and metrics such as completion time, energy usage, and turnaround time.
- Architected adaptive logic to dynamically set frequency/voltage scaling depending on workload behavior, efficiently reducing thermal and energy overhead.

Tech Used: C Programming, DVFS Strategy, SRTF Scheduling, Energy Optimization, HTML/CSS/JavaScript UI, Real-Time Simulation Logic.

TRAINING

Think Design Prototype - Summer Training on Design Thinking & Figma Jun' 25 - Jul' 25

- Learned and applied the Design Thinking process, namely: Empathize, Define, Ideate, Prototype, and Test.
- Strengthened understanding of UI/UX principles, including visual hierarchy, consistency, and responsive design.
- Conducted user research, created personas, and mapped user journeys to understand user needs and behaviors.
- Designed wireframes, high-fidelity screens, and clickable prototypes for a real-world project.
- Improved knowledge of UI/UX principles, visual hierarchy, consistency, and responsive design.

CERTIFICATES

- AI Foundations Associate - [ORACEL](#) Sep' 25
- Social Networks - [NPTEL](#) Apr' 25
- Introduction to Hardware and Operating Systems - [Coursera](#) Sep' 24
- The Complete Full-Stack Web Development Bootcamp - [Udemy](#) Feb, 24

EXTRACURRICULAR ACTIVITIES

- Participated in the BinaryBlitz Web Hackathon. - [Coding Ninjas](#) Apr' 24
- Participated in the Baal Vigyan Science Competition. Nov' 19

EDUCATION

Lovely Professional University Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.1 Since Aug' 23

Rankers International School Indore, Madhya Pradesh
Intermediate; Percentage: 64 Apr' 21 - Mar' 22

Rankers International School Indore, Madhya Pradesh
Matriculation; Percentage: 75 Apr' 19 - Mar' 20