

Atul Kesharwani

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EXPERIENCE

SSPL LAB, DRDO | DIGITAL DESIGN INTERN

March 2025 – Present | Delhi

- Designed an 8-bit Data Pattern Generator in Verilog to produce patterns such as alternating 1s and 0s, all 1s, all 0s, and Pseudo-Random Binary Sequences (PRBS).
- Simulated the design using ModelSim with custom testbenches, ensuring 100% functional accuracy through waveform analysis and output validation.
- Verified pattern generation logic using FSM-based design techniques, ensuring deterministic output under all test conditions.

DIGITALDOSE | FRONTEND WEB DEVELOPMENT INTERN

Nov 2024 – Present | Maharashtra

- Redesigned and developed 10+ responsive interfaces using React and Tailwind CSS, improving user engagement by 25%.
- Enhanced application performance by implementing Redux state management, increasing scalability by 30%.
- Built smooth routing systems for SPAs with React Router, reducing navigation errors by 20%.

PROJECTS

JOBPORTAL | REACT.JS, NODE.JS, EXPRESS.JS, MONGODB, REST API, JWT, TAILWIND CSS

April 2025

- Developed a full-stack job portal platform enabling job seekers and recruiters to register, log in, post jobs, and apply seamlessly using React and Node.js.
- Implemented JWT-based authentication and role-based access control for secure login and feature accessibility for Admin, Employer, and Candidate users.
- Integrated CRUD operations for job posts and applications using RESTful APIs.

DISEASE TRACKER | REACT, NODEJS (EXPRESS), MONGODB TAILWIND CSS

Nov 2024 – Present

- Designed a malaria tracking system for real-time monitoring across 100+ regions, enhancing public health response efficiency by 40%.
- Implemented visualization zones (red, yellow, green) to categorize malaria density based on live data from MongoDB.
- Enabled real-time data visualization for effective public health analysis and response.

ACHIEVEMENT

5TH RANK ON SIH INTERNAL HACKATHON | HACKATHON

Nov 2023

3RD RANK ON SIH INTERNAL HACKATHON | HACKATHON

Nov 2024

1ST RANK ON CODE-QUEST | CODING CONTEST

Feb 2024

EDUCATION

REC SONBHADRA

BACHELOR OF TECHNOLOGY IN
ELECTRONICS ENGINEERING

Aug 2022 - Aug 2026 | Sonbhadra

SGPA: 8.36/ 10.0

SKILLS

PROGRAMMING

1+ Year:

Python • MATLAB

2+ year:

JavaScript • React • MongoDB • C/C++ •
Node.js (EXPRESS)

TECHNOLOGY

Git/Github • Figma

IOT

COURSEWORK

UNDERGRADUATE

Electronic

(Internet of Things)

Robotics

Automation

Embedded System

SOCIETIES

GOOGLE DEVELOPER GROUP ON CAMPUS REC SONBHADRA

| LEAD/ORGANIZER

SOCIETY OF EXPLORATION AND INNOVATION IN ELECTRONICS

| VICE PRESIDENT

IEEE-RECS STUDENT BRANCH

| WEBMASTER

LINKS

- Github
- LinkedIn
- LeetCode