

Ruturaj Deshmukh

ruturajd9696@gmail.com / +91 7249780908

[GitHub](#) / [LinkedIn](#)

Skills

Languages: C/C++, HTML, CSS, JavaScript, TypeScript, SQL, Python, Java.

Technologies & Tools: React.js, Redux, Node.js, Express.js, Tailwind CSS, MongoDB, MySQL, AWS (DynamoDB, S3, EC2), Docker, Postman, Git, GitHub.

Work Experience

KPIT, Pune

April 2024 - Present

Associate Software Developer Intern

- Working on Embedded C/C++ programs on MSPM0G3507 microcontroller.
- Developing expertise in writing optimized code for IoT devices, ensuring high performance and resource efficiency.
- Utilizing technologies such as C/C++, Embedded C, OOPS, code optimization techniques.

Sustainfy Energy Pvt Ltd, Pune

Aug 2023 - Present

Full Stack Software Development Intern

- Engineered a comprehensive full-stack web application utilizing the MERN (MongoDB, Express.js, React.js, Node.js) stack, designed to support distinct roles including users, administrators, technicians, and super-administrators.
- Empowered super-admins with the capability to monitor and manage all admin and technician activities, facilitating thorough oversight and administration.
- The project was designed to **reduce manual effort for admins and clients** by automating processes and replacing data management tasks traditionally performed with Excel sheets. It offered seamless data visualization through integrated graphs and charts.
- Utilized technologies such as React.js, Node.js, Express.js, Redux, AWS, S3, EC2, DynamoDB, Postman, Figma, and Git for development, testing, design, and version control.

Sustainfy Energy LLP, Pune

Feb 2023 - May 2023

Image Processing Intern

- **Developed:** Automated crack detection system for solar panel EL images through advanced image analysis.
- **Objective:** Minimized manual effort in crack detection and solar panel health assessment.
- **Technology:** Utilized Python for sophisticated image processing and analysis.

Education

Savitribai Phule Pune University, Pune

Aug 2020 - June 2024

Bachelor of Engineering in Information Technology

CGPA: 9.23/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Math, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Advanced Data Structures and Algorithms, Information Retrieval.

Project Work

Modern Real Estate Marketplace Application.

Built a real estate application using the **MERN stack**, enabling users to create and manage property listings with customizable filters. Integrated image upload functionality for profile-based listing management and implemented advanced search features, allowing users to filter and locate properties based on multiple criteria like location.

Solar Power Performance Monitoring System. (Sponsored by Sustainfy Energy)

Developed a full-stack MERN web application with distinct roles for users, admins, technicians, and super-admins. Technicians input data, reviewed by admins, and accessed by clients. Super-admins oversee all activities for efficient management. The system automated manual tasks, replacing Excel-based data management with integrated graphs and charts for seamless visualization.

Utilized Technologies like React.js, Node.js, Express.js, Redux, Postman, Figma, and Git for development, testing, design, and version control.

Real-Time Chat Application

Developed a real-time chat application using the **MERN stack and Socket.io** for seamless, bi-directional communication between users.

Integrated real-time messaging, notifications, and secure user authentication with JWT and MongoDB for data storage.

Publications and Achievements

- Publication:
 - ❖ Title: *Solar Power Performance Monitoring System*. [Certificate](#).
 - ❖ Published in *METSZET Journal*, Volume 9, Issue 1 (January 2024)
 - ❖ UGC-CARE approved, ISO 7021-2008 certified journal.
- 2nd Place - Code Cipher (DSA Problem Solving Competition).
- 3rd Place - PBL Project Exhibition. [Certificate](#)
- Institute GFG Rank 1. [Profile](#)

Ongoing Learning

Blockchain & Cryptography:

- Basic understanding of blockchain technology, including Bitcoin and Ethereum.
- Learning to develop smart contracts using Solidity and Web3.js.
- Exploring decentralized applications (dApps) and DeFi protocols.