

SUSHANT PATIL

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Education

AMITR College of Engineering

Bachelor of Engineering, Computer Engineering

2021 – 2024

University of Mumbai

Experience

Videowaves

MERN Stack Developer

Dec 2024 – Present

Mumbai, IN

- Designed and implemented **secure authentication and authorization** using **JWT-based authentication** and **role-based access control (RBAC)**, securing sensitive client and project data for multiple user roles.
- Integrated **third-party and internal REST APIs** and automated backend workflows using **n8n**, reducing manual operations and improving system efficiency.
- Developed and maintained scalable backend services following **clean code principles**, modular architecture, and reusable components, improving long-term maintainability.
- Documented APIs using **Swagger and Postman**, enabling faster onboarding for developers and improving cross-team collaboration.
- Improved platform stability and performance through structured error handling, validation, and optimized API responses.

Cuvette

July 2024 -- Nov 2024

Front-end Developer

Remote

- Enhanced website performance by optimizing front-end assets and reducing page load times, improving overall user experience by **30%**.
- Developed **fully responsive user interfaces** ensuring consistent performance and accessibility across mobile, tablet, and desktop devices.
- Integrated **RESTful APIs** to enable dynamic, data-driven components and improve application interactivity and reliability.

Technical Skills

Programming Languages

: JavaScript (ES6+), TypeScript, SQL, HTML, CSS

Frameworks & Libraries

: React.js, Node.js, Redux Toolkit, Tailwind CSS, Mongoose

Databases

: MongoDB

Development Tools

: Git, GitHub, Postman, Swagger, n8n, VS Code

Software Engineering Concepts

: OOPS concepts, RESTful APIs, System Design

Projects

Aadhaar Voting System | Blockchain, React, Node.js, OTP Authentication

2024

- Developed a **secure Aadhaar-based voting system** integrating blockchain technology to ensure tamper-proof and transparent vote recording.
- Implemented **multi-step voter authentication**, including session ID verification and **OTP-based identity validation** using Aadhaar-linked mobile numbers.
- Built logic for **eligibility checks** (age, constituency, voting status) before granting ballot access.
- Designed an intuitive **voting interface** displaying candidate names, party details, and logos, enabling users to securely cast their vote with one click.
- Enforced **one-vote-per-user** using blockchain-backed state management, automatically disabling voting options after casting a vote.
- Engineered a scalable workflow allowing continuous voting across multiple wards with secure logging and automated session handling.

Smart Equipment Rental System | MERN Stack, REST APIs, Inventory Management

2024

- Developed an equipment rental management platform inspired by Rentman for Videowaves, enabling efficient handling of gear bookings, inventory, and availability tracking.
- Implemented modules for **real-time inventory management**, rental scheduling, equipment status updates, and conflict prevention.