
VAIBHAV UGALE

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<https://github.com/vaibhavugale> | [portfolio](#)

Software Engineer with over 1 year of experience in building scalable web and mobile applications using ReactJS, React Native, and TypeScript. Focused on clean architecture, performance, and user-centric design.

Skills:

Frontend : JavaScript | TypeScript | React JS | React Native | NextJS | React Hooks | Context API

Backend : Node JS | Express JS | RESTful APIs

Other : Problem solving | Data Structure And Algorithms | Git | GitHub |

Experience:

Emertech innovations – Frontend Developer (Aug-2024 - present)

- **Dynamic JSON-Driven Template Renderer with Edit.(TechStack: ReactJS).**
 - Engineered a dynamic, JSON-driven template system in ReactJS to render complex, nested UI structures in view-only mode.
 - Developed an edit mode that auto-generates input fields dynamically based on the same JSON schema.
 - Implemented pagination to efficiently handle large datasets and improve performance.
- **EUDR-Compliant Land-Mapping & Deforestation-Monitoring Platform (TechStack: React-Native).**
 - Built a complete React Native app for farm/plot mapping and compliance tracking.
 - Implemented 2-step verification for secure user access.
 - Enabled farm/plot creation via polygon mapping with auto-generated GeoJSON and KML files.
 - Built algorithm to auto-calculate polygon area in square meters.
 - Developed point-in-polygon algorithm for plot overlay validation.
- **Dispatch Module – Inventory Management System (TechStack: ReactJS , TypeScript).**
 - Developed the frontend for the dispatch module using ReactJS and TypeScript.
 - Built a traditional form-based input system for manual data entry.
 - Integrated QR and barcode scanning for fast, accurate dispatch data capture.
 - Enabled end-to-end traceability of dispatched goods back to individual farmers.

Personal Projects:

Full Stack Ed-Tech Platform:

A fully functional Ed-Tech platform that enables users to create, consume, and rate educational content.

Live Link:<https://ed-tec.vercel.app/>

Education:

Smt. Kashibai Navale College of Engineering , Vadgaon , Pune —B.E

JUNE 2020 - JUNE 2024

CGPA:8.8 , STREAM : Computer Engineering.