

# Prashanth R

## MERN Stack & Backend Developer

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### Profile Summary

Full-Stack MERN Developer with hands-on experience in building responsive web applications and RESTful APIs using React.js, Node.js, Express.js, and MongoDB. Skilled in authentication, CRUD operations, API integration, and deployment on Render and Vercel. Strong foundation in JavaScript (ES6+), Git, and modern UI development.

### Technical Skills

- **Frontend:** React.js, JavaScript (ES6+), HTML5, CSS3, Bootstrap
- **Backend:** Node.js, Express.js, REST APIs, JWT Authentication
- **Database:** MongoDB, Mongoose
- **Tools:** Git, GitHub, Postman, Thunder Client
- **Deployment:** Render, Vercel
- **UI/UX:** Figma, Canva

### Internship Experience

#### AI & Python Intern | Hope Foundation | Jan 2025 – Feb 2025 | Bengaluru

- Worked on an AI-powered Farming Web Service, leveraging Machine Learning and Python for agricultural insights.
- Developed an ML-based Crop Recommendation System to suggest optimal crops based on soil properties, weather, conditions, and location.
- Integrated OpenWeatherMap API for real-time weather forecasts, assisting farmers in planning irrigation and harvesting.
- Designed an interactive market price trends dashboard using Flask, React.js, and Chart.js, enabling farmers to analyze historical crop prices.
- Developed practical experience in AI model deployment, API integration, and frontend-backend communication. Certified by Hope Foundation - View Certificate

### Projects

#### ThoughtPal (Full-Stack Notes Application)

**Tech Stack:** React.js (Vite), JavaScript (ES6+), Bootstrap, Node.js, Express.js, MongoDB

- **Description:** Developed a full-stack note-taking web application that allows users to securely create, edit, and manage personal notes. Built a responsive and intuitive user interface using React components for real-time updates and smooth user interactions.
- **Outcome:** Implemented secure authentication using JWT and bcrypt, including email notifications to enhance user engagement. Deployed the application on Render, ensuring reliable performance and cross-device accessibility.
- **Project URL:** <https://thoughtpal-1.onrender.com/>

#### Farming Web Service Using AI

**Tech Stack:** Flask, React.js, Python (scikit-learn), Chart.js, OpenWeatherMap API

- **Description:** Developed an AI-based farming assistant that provides crop recommendations, real-time weather forecasts, and market price trends to support data-driven agricultural decisions. Built interactive dashboards using React.js and Chart.js for clear data visualization.
- **Outcome:** Integrated OpenWeatherMap API for live weather updates and trained machine learning models using scikit-learn and Flask to predict crop suitability across different soil types and climate conditions, improving recommendation accuracy.
- **Project URL:** <https://farmer-ai-x2hw.onrender.com>

### Education

- Bachelor of Computer Application
- East Point College of Higher Education 2022 - 2025