

Pamerla Rithin

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SUMMARY

Full-stack developer passionate about crafting scalable and user-friendly web applications, with expertise in React.js, Next.js, and Node.js.

WORK EXPERIENCE

Freelancer | SRMAP Fest

Amaravathi

Frontend engineer | Next.js

Jan 2025 - Present

- **Developed College Fest Website:** Built a feature-rich platform enabling students to purchase tickets and enroll in competitions, providing a seamless user experience.
- **Deployed on Vercel:** Ensured smooth and scalable performance by leveraging modern deployment practices on Vercel (currently under maintenance).
- **Design Excellence:** Prioritized responsive and intuitive design principles, creating a visually appealing and user-friendly interface optimized for both desktop and mobile users.

Freelancer | Family business

Remote

Frontend engineer | HTML5, CSS, Javascript.

Jun 2024 - Jul 2024

- **Developed a car rental website** that resulted in a **30% increase in user engagement** and a **20% boost in bookings** within a month.
- **Wrote 500+ lines of code** to improve navigation, responsiveness, and accessibility, reducing bounce rate by **25%**.
- **Implemented real-time car availability and filtering features**, increasing customer retention by **15%**.

PROJECT EXPERIENCE

MNIST Digit Recognition Model | Next.js, Node.js, Python, TensorFlow, Keras, TensorFlow.js.

- Trained a CNN model achieving 99.2% accuracy on the MNIST dataset using data augmentation and dropout regularization.
- Built a real-time web app with <100ms prediction latency, processing 1,000+ user-drawn digit submissions with 95% correct predictions.

F1 Route Optimizer | React.js, Node.js, Express.js.

- Reduced route calculation time by 70% using permutation-based optimization, solving TSP for 15+ cities in <2 seconds.
- Improved API efficiency, handling 50+ requests/sec with <200ms response time during load testing.

Online voting system | HTML, CSS, PHP, MYSQL

- **Developed a secure voting platform** that processed **100+ votes** during test deployments.
- **Reduced vote processing time by 60%**, ensuring real-time vote updates and result calculations.

EDUCATION

SRM University

B.tech, CSE

Amaravathi, IN

Graduation Date: July, 2026

Career Point

MPC Secondary education

Amaravathi, IN

Graduation Date: July, 2022

SKILLS

- Languages: Java, C/C++, Python, JavaScript, SQL, Bash
- Frameworks: NodeJS, Express.JS, Scikit, TensorFlow, Django
- Libraries: React, Next, MongoDB, pandas, NumPy, Matplotlib, Scikit-learn
- Tools: GIT, PostgreSQL, MySQL