

# Pamerla Rithin

+916304545037 | [Rithinsai.pamerla@gmail.com](mailto:Rithinsai.pamerla@gmail.com) | [linkedin.com/in/rithinsai-dev/](https://linkedin.com/in/rithinsai-dev/) | [github.com/rithinsai-dev](https://github.com/rithinsai-dev)

## 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 Car Rental Website:** Designed and implemented a responsive frontend website for a car rental service, focusing on clean navigation and intuitive design.
- **Accomplished 30% Customer Growth:** Improved user engagement by optimizing the interface, allowing easy access to car listings and booking options.
- **Enhanced User Experience:** Wrote over 500 lines of code using modern frontend technologies, ensuring mobile responsiveness and visually appealing layouts.

## PROJECT EXPERIENCE

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

- Developed a **CNN model** to recognize handwritten digits from the **MNIST dataset** using **TensorFlow** and **Keras**, achieving high accuracy through **data augmentation** and **regularization**.
- Built a **real-time web application** with **Next.js** and **Node.js**, allowing users to draw digits on a 28x28 grid and receive predictions and **confidence scores** from the model in the browser.

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

- Developed a **RESTful API** and frontend interface to solve the problem using a Travelling salesman problem.
- Implemented **route optimization** by generating permutations and calculating the shortest path.

### Online voting system | HTML, CSS, PHP, MYSQL

- Designed and implemented a secure **online voting system**, allowing registered voters to cast ballots remotely, increasing accessibility and election participation.
- Integrated **robust authentication** measures and **encrypted data transmission** to ensure voter privacy and prevent fraud, maintaining the integrity of the voting process.

## EDUCATION

SRM University  
B.tech, CSE

Amaravathi, IN  
Graduation Date: 2026

Career Point  
MPC Secondary education

Amaravathi, IN  
Graduation Date: 2022

## SKILLS

- **Languages:** JavaScript, Python, C, C++, SQL, HTML, CSS, php.
- **Technologies:** React.js, Next.js, TailwindCSS, Node.js, Express.js.
- **Tools:** Git, MySQL, MongoDB, GitHub, Postman, Mongoose, Pandas, Numpy, Matplotlib