

UMA SAI PAVAN TANUKULA

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Career Objective

Motivated and enthusiastic 3rd-year Computer Science and Design student with hands-on experience in full-stack web development using React.js, JavaScript, and modern web technologies. Passionate about building scalable and responsive applications and contributing to agile development teams. Seeking a dynamic environment to apply and expand my skills through innovative full-stack projects.

Education

SRKR Engineering College, Bhimavaram <i>Bachelor's Degree, Computer Science & Design</i>	2024 - 2027
D.N.R Polytechnic College, Bhimavaram <i>Diploma, Computer Science</i>	2021 - 2024
ARKR Municipal High School, Bhimavaram <i>School</i>	2017 - 2021

Projects

SRKR-CSD/CSIT-HOUSES React.js, CSS

- Frontend developer for a full-stack responsive web app that manages and displays points for five department houses (Agni, Vayu, Prithvi, Jal, Aakash).
- Designed interactive UI components to display weekly scores, house rankings, and a real-time leaderboard.
- Ensured a smooth user experience across devices with responsive design principles.
- Live Project: csd-it-house.vercel.app/pointspage

NeuroNest: Supportive Web Platform for Children with Autism React.js

- Designed and developed an intuitive web platform to support children with Autism Spectrum Disorder (ASD) using Design Thinking principles.
- Built interactive visuals, communication aids, and a parent dashboard for personalized learning and progress tracking.
- Focused on accessibility, clean UI, and emotionally sensitive content delivery.

Audio Classification & Signal Processing System python, AI/ML

- Developed a real-time audio classification system using C++ and Convolutional Neural Networks (CNN), achieving 85% accuracy.
- Implemented signal processing algorithms and extracted MFCC features for effective model training.
- Created automated testing scripts and performance monitoring tools to evaluate system accuracy and speed.

Hospital Management System HTML, CSS, JavaScript, PHP

- Developed a full-stack web application for hospital management with online appointment slot booking.
- Implemented user-friendly interface for patients to contact specialists and book slots based on available schedules.
- Built backend in PHP to manage doctor schedules, user bookings, and real-time slot validation.

EDU-ACCESS MERN Stack

- Developed a full-stack web platform to bridge the gap in educational access by providing curated resources for students across various career paths.
- Implemented secure user authentication and dynamic content delivery using MongoDB, Express.js, ReactJS, and Node.js.
- Enabled students to explore career-specific materials, guides, and tools to support informed academic and professional choices.

Skills

Programming Languages: Java, HTML5, CSS3,python
Frontend: React.js, Redux, Bootstrap, Tailwind CSS, Responsive Design
Backend: RESTful APIs, MySQL, PHP
Tools & Technologies: Git, GitHub, VS Code

Achievements and Certifications

District Level 1st Prize in Quiz Competition – Awarded for exceptional performance at the inter-district level.

Certification in Java – Swarnandhra Institution

Certification in Python – Swarnandhra Institution

Full-Stack Developer Bootcamp (6 Weeks) – Successfully completed comprehensive training covering both frontend and backend technologies.

Machine Learning Workshop Certification – Organized by ACE Engineering College Club

Participation Certificate in Hackathon conducted by GDG