Tiruvayeepati Chandu

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B Tech
Electrical and Electronics Engineering
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GitHub Profile
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Education

•National Institute of Technology, Warangal *2023 - present*
B Tech, Electrical and Electronics Engineering CGPA: 6.88/10

•Resonance Junior College *2021 - 2023*
Board of Intermediate Education, Telangana Marks: 959/1000

Personal Projects

•Space-Themed Portfolio Website [Live Site] *July 2025*
A futuristic, immersive portfolio crafted to reflect my technical skills, creativity, and design sensibility. GitHub Link
- Tech stack: **React.js, Tailwind CSS**
- Delivered a refined, responsive interface with intuitive navigation and visual coherence, aligned to a futuristic space theme to reflect personal branding.

•JobHaven – Job Portal Web App [Live Site] *June 2025*
Full-stack platform enabling job seekers to apply and recruiters to manage applications. GitHub Link
- Tech stack: **React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Clerk, Cloudinary, Sentry**
- Deployed on **Vercel** with serverless custom API routes, achieving 200ms average response time.
- Built features for job seekers to log in via Clerk, filter jobs, upload resumes, and track applications.
- Built a recruiter dashboard to post jobs, manage listings, and streamline applicant tracking.
- Integrated Cloudinary for secure resume uploads and implemented real-time error tracking via Sentry, reducing debugging time by 30%.

•Gesture Controlled Robot *Oct 2024*
Developed a real-time robotic simulation system where a robot responds to hand gestures captured via webcam. GitHub Link
- Tech stack: **Python, OpenCV, MediaPipe, PyBullet, NumPy**
- Achieved over 90% gesture recognition accuracy using MediaPipe's hand landmark model on live webcam.
- Simulated 6-DOF robotic movement in PyBullet, mapped to specific gestures at 30 FPS with minimal latency.
- Integrated gesture recognition and robot simulation into a unified system, enabling seamless real-time control.

•Book Notes *Jan 2025*
A web application to track books read, rate them, and maintain notes. GitHub Link
- Tech stack: **Node.js, Express.js, PostgreSQL, Bootstrap**
- Implemented responsive CRUD operations with instant form feedback and integrated cover images via Open Library Covers API.
- Designed intuitive sorting features for books by title, recency, and user rating, enhancing user experience.

Technical Skills and Interests

Languages: C++, Python, JavaScript
Frameworks: React JS, Node.js, Express.js, Tailwind CSS, Bootstrap, REST APIs
Databases: PostgreSQL, MongoDB
Developer Tools: Git, GitHub, Postman, VS Code, pgAdmin
Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS, OOPS

Positions of Responsibility

•Robotics Club Volunteer *2023 – 2024*
- Gained hands-on experience in robotics; explored **ROS 2**, simulations, and team projects.