Karukonda Tirumala

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Professional Summary

A motivated pre-final year computer Science and Engineering student with a strong desire to excel as a Full Stack Web Developer. Driven by a genuine love for coding and problem-solving, I approach each task with dedicated energy and excitement. Beyond web development, I hold a deep fascination for the world of machine learning, always eager to learn and grow. What distinguishes me is not just my technical skills, but also my steadfast commitment to honesty and dedication, ensuring that I give my all to every project I undertake.

Education

PES College of Engineering . Mandya, Karnataka	2027 – till date
Bachelor of Engineering . Computer Science and Engineering . CGPA: 7.5/10.0	2023 – 2025

Sri Viswa IIT and Medical . Vishakhapatnam, Andhra Pradesh
Pre-University Course . Physics, Chemistry, Mathematics

Technical Skills

- Programming languages: C, C++, Java, Python, JavaScript
- Frontend Development: HTML, CSS, React.js
- Database Management: MySQL
- Tools: Git, GitHub, MS Word, VS Code, Figma

Soft Skills

- Communication skills
- Leadership and Team Work
- Problem Solving
- Dedication
- Continuous learning

Projects

- Autonomous Fire Detection and Extinguishing Robot
  PES College of Engineering, Karnataka (Nov 2023 – Jun 2024)
  Developed a fully autonomous robot using flame sensors and motor controls to detect and extinguish fires.
  Programmed navigation algorithms for the robot to locate fire sources accurately and integrated motor controls for precise movement.
  Automated fire extinguishing via relay-activated water pump and servo-driven nozzle adjustment.
- Blood Pressure and Humidity Monitoring System – Hackathon Project
  PES College of Engineering, Karnataka (Nov 2023 – Dec 2023)
  Designed and built a prototype for real-time monitoring of blood pressure and humidity, employing advanced sensors in a 24-hour hackathon.
  Achieved 95% measurement accuracy using optimized data acquisition techniques.
  Collaborated in a team of four to integrate hardware and deliver a functional prototype ahead of schedule.
- Health-Plus: Healthcare Information Platform
  Created a user-friendly web application to help patients find doctors, hospitals, and book appointments efficiently.

Developed features to display detailed profiles for doctors and healthcare institutions, saving users time and improving access to care.

Extra-Curricular Activities

- Participated in 24-hour hackathon – HACKSPRINT '24' PES COLLEGE OF ENGINEERING
- Participated in ROBO RACE – ROBORIKISHI '25' NIE COLLEGE, MYSORE
- Participated in ROBO RACE -ROBOTHON '25' NEW HORIZON, BANGLORE