

SRIDHAR V

Robotics And Automation Student | Web Developer

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ABOUT ME

Passionate engineering student specializing in Robotics and Automation with a strong foundation in hardware projects. Currently transitioning into web and full stack development, backed by hands-on experience through a web development internship at Twilight IT Solutions. Proficient in **Python, HTML, CSS, JavaScript**, and **FastAPI**. Known for a strong problem-solving mindset, eagerness to learn, and the ability to blend hardware knowledge with modern web technologies.

EDUCATION

MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

B.TECH ROBOTICS AND AUTOMATION
CGPA - 8
2023- 2027

PETIT SEMINARE HIGHER SECONDARY SCHOOL

HIGHER SECONDARY (2021-2022)
- 67%

SKILLS

WEB DEVELOPMENT:

- HTML, CSS, JavaScript (Basics)
- Responsive Design and UI Implementation
- Frontend Prototyping

PROGRAMMING & AUTOMATION:

- Python (Logic Building)
- C (Basics)
- Arduino Programming for Robotics Projects

TOOLS & PLATFORMS:

- Visual Studio Code
- **SkillRack** (510+ coding problems solved)
- SolidWorks (Part Modelling)
- Figma

ACHIEVEMENT

- Secured 2nd place in National Level Robo Race at PTU with an Arduino-based Wi-Fi car
- Solved over 500+ Python problems on SkillRack, strengthening logical and coding skills
- Participated in SAEINDIA Drone Workshop & Competition, focused on real-time embedded systems.
- Got Selected and participated in a one-day drone workshop conducted by Ignite Skylabs at MVIT

WORK EXPERIENCE

WEB DEVELOPMENT INTERN – TWILIGHT IT SOLUTIONS

Completed a two-week internship focused on building a health assessment web application. Developed a clean, responsive frontend based on Figma designs, ensuring a smooth user experience across devices. Integrated dynamic question flows and search functionality to enhance user engagement. This project sharpened my skills in frontend development, UI/UX alignment, and full-stack coordination while working within real-world project constraints

PROJECT

RAIN-SENSING MOTORIZED UMBRELLA BAG

Developed a smart umbrella bag that automatically opens and closes based on rain detection using an Arduino and rain sensor module. The system uses a motorized mechanism to roll the umbrella, reducing user effort and protecting it from getting wet. This project combines automation, sensor integration, and embedded systems

ROBO RACE CAR (WIFI CONTROLLED)

Built an Arduino-based race car controlled over Wi-Fi using an ESP8266 module and mobile interface. Engineered for speed, maneuverability, and low-latency control, designed to compete in Robo Race events. Won 2ND place in a **National-level Technical Symposium** at PTU.

CONNECTING ROD DESIGN & SIMULATION IN SOLIDWORKS

Connecting Rod Design & Simulation in SolidWorks Modeled and assembled a mechanical connecting rod in SolidWorks as part of a mechanical design learning module. Simulated motion, stress, and fit to verify real-world feasibility of the component. Project enhanced understanding of **CAD** design, tolerances, and assembly mechanics

INTERESTS

SKILLRACK PROBLEM SOLVING:

Solved **510+** problems in Python, enhancing logical thinking and coding efficiency

DESIGNING WITH CANVA:

Passionate about creating posters, presentations, and documents with aesthetic appeal and clarity.

CONTINUOUS LEARNING

Committed to personal development through online learning, self-guided projects, and staying updated with emerging technologies.

LANGUAGES KNOWN

- TAMIL - NATIVE
- ENGLISH - FLUENT