

S. Tarun Kumar

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B.E. Electronics and Communication Engineering
SRM VALLIAMMAI ENGINEERING COLLEGE,
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🐙 GitHub Profile

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EXECUTIVE SUMMARY

Motivated Electronics and Communication Engineering student at SRM Valliammai Engineering College with a passion for full-stack web development and automation. Skilled in Python, web technologies, Selenium, and AIoT/IIoT applications, with hands-on experience in YOLO model training. Strong problem-solving, teamwork, and leadership abilities with a focus on smart, efficient solutions.

EDUCATION

- **B.E. Electronics and Communication Engineering** 2023–2027
SRM VALLIAMMAI ENGINEERING COLLEGE, KATTANGULATHUR

PERSONAL PROJECTS

- **Interactive Portfolio Website**

A personal portfolio website designed to showcase skills, projects, and achievements.

- Developed a fully responsive and animated portfolio website using React.js and Tailwind CSS.
- Integrated a project showcase, a functional contact form, and deployed the final static site to GitHub Pages.
- Technologies: HTML, CSS, JavaScript, React, Tailwind CSS.

- **Smart Fence System using Raspberry Pi**

An AIoT-based smart security system detecting human presence near a fence and automatically cutting off power.

- Implemented a YOLO-based object detection model on a Raspberry Pi, using an ESP32-CAM for the real-time video feed.
- Engineered an automated power cutoff system using Raspberry Pi GPIO pins and developed a web interface for wireless monitoring.
- Technologies: Python, OpenCV, YOLO, Raspberry Pi, ESP32-CAM, IoT protocols.

TECHNICAL SKILLS AND INTERESTS

Languages:	C/C++, Python, Java, JavaScript, HTML+CSS
Libraries:	C++, Python Libraries, ReactJs
Web Dev Tools:	Nodejs, VSCode, Git, Github, Selenium
Frameworks:	ReactJs
Cloud/Databases:	MongoDB, MySQL
Relevant Coursework:	Data Structures & Algorithms, Operating Systems, OOP, DBMS, Software Engineering
Areas of Interest:	Web Design and Development, Cloud Security
Soft Skills:	Problem Solving, Self-learning, Presentation, Adaptability