S MUTHU SELVI

Kanyakumari | Tamil Nadu

+91 8807003396 | smthuselvi965@gmail.com | **LinkedIn** | **GitHub**

PROFILE SUMMARY

- Highly motivated and recognized technology enthusiast proficient in building responsive, user-centric web interfaces using HTML, CSS, JavaScript, and React. Combines strong UI/UX expertise (Figma) with a background in advanced technologies, including AI/ML solutions.
- Proven ability in research and innovation, including publishing 3 research papers (2 conference, 1 journal), filing 2 patents, and winning multiple awards for academic and entrepreneurial excellence.

TECHNICAL SKILLS

Programming Languages: JavaScript, HTML, CSS, Java (basics)

Frameworks & Libraries: React , Bootstrap, Node.js (Basic), MERN Stack

Tools & Concepts: Git, GitHub, RESTful APIs, Vs code, Figma

Databases: MongoDB (Basics)

Soft Skills: Leadership, Communication , Interpersonal relationship, Adaptability, Team Collaboration

EXPERIENCE

Full Stack Intern – ALO Info Tech   **Aug 2024 – Feb 2025**
- Demonstrated end-to-end ownership by designing and implementing high-quality React user interfaces and integrating them with Node.js APIs for core application logic.
- Focused on building reliable systems by implementing rigorous testing and code review practices to ensure production stability during feature updates.

Frontend Intern – TECHVOLT Software   **Feb 2024 – Mar2024**
- Engineered responsive UIs and accessible user interfaces using HTML, CSS, and JavaScript, delivering production-ready components.
- Collaborated effectively on multi-person coding projects to meet design specifications and launch timelines.

MERN STACK - Srishti   **June 2025**
- Gained hands-on experience by completing a full-scale application using the MERN stack (MongoDB, Express, React, Node.js).
- Designed and implemented RESTful APIs using Express.js to handle data persistence and manage state changes across frontend and backend, demonstrating end-to-end ownership.

EDUCATION

B.Tech in Information Technology - **Arunachala College of Engineering for Women** | 2022-2026,CGPA:8.42(upto 6th sem)

PROJECTS

Pagination Implementation (*React & API Integration***)** link
- Developed a scalable frontend solution by implementing API-based pagination in a React application.
- Enhanced user experience by loading data efficiently.

Personal Portfolio (*Responsive Web Design***)** link
- Designed and deployed a fully responsive personal portfolio using HTML, CSS, and Bootstrap.
- Showcased projects and skills, demonstrating mastery of fundamental frontend frameworks.

AI-Based Obstacle & Animal Detection for Railways link
- Designed a smart system to detect track obstructions using AI/ML techniques.
- Enabled automatic train halting on detection.

PUBLICATION / PATENTS

- *Integration of Smart Grid and Community-Based Cold Storage Networks* in the International Journal of Innovative Research in Technology (IJIRT) (Sept 2025).
- *EcoFridge: Renewable Energy-Based Smart Cold Storage For Coastal and Hilly MSMEs,*at the International Conference on Emerging Trends in Multidisciplinary Research and Technology (ICETMRT-2025).
- *IOT Based Automatic Stopping of Opposing Trains, Obstacles Using Lidar and Accelerometer* in the National Conference Proceedings in Multidisciplinary Research and Emerging Technologies (April 2024).
- *AI-Based Obstacle & Animal Detection System with Train Auto-Stopping-* Patent, Oct 2023
- *EcoFridge : Resilient Cold Storage with Blockchain & GSM for remote MSMEs-* Patent,2025

CERTIFICATIONS

- Full Stack Development - ALO Info Tech | 2025 view credentials
- UI/UX Design - Maiyyam | 2025 view credentials
- Entrepreneurship - Maiyyam | 2025 view credentials
- DCA Tally - CSC Academy | 2022 view credentials

ACHIEVEMENTS

- ISTE-ACEW Academic Excellence Award | 2024, ACEW
- Icon of Kanyakumari Award | 2024, ALO INFO TECH
- IEI-ACEW Entrepreneur Innovation Award | 2025, ACEW
- Startup TN Digital Product Maheathon:1st Runner-up in 48 hour hackathon| 2023
- Idea Presentation, Wild Frontiers'25 (Govt. of Tamil Nadu)-Won 3rd place
- Awarded as a shining star in National Level Talent Acquisition Hackathon 4.1
- NEXT GEN Awards | 2025, ACEW
- ENDEAVOUR Awards | 2025, ACEW
- IDEATHON Awards | 2025, ACEW
- RESEARCH PIONEER Awards | 2025, ACEW

LANGUAGES

Tamil (Native)   English(Professional English)