Balamurugan P

Chennai

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Education

SRI SAI RAM INSTITUTE OF TECHNOLOGY   **Sep. 2023**
Bachelor of Engineering (B.E.) in Computer Science   *Chennai, Tamil Nadu*

Relevant Coursework

Data Structures and Algorithms; Operating Systems; Computer Networks; Database Management Systems; Signals and Systems; Microprocessors and Microcontrollers

Internships

Femtosoft Technologies   **June 2025**
UI/UX Developer Intern   *Chennai, Tamil Nadu*

– Built and tested responsive web modules using HTML, CSS, and JavaScript.
– Assisted in UI and UX design implementation, improving usability and visual consistency.
– Collaborated with the development team to refine UI layouts based on user feedback and design guidelines.
– Executed the development of basic reporting dashboards to visualize daily test results using HTML, CSS, and JavaScript.

Projects

DEMPLAY – User-Centric Video Streaming Platform | *HTML, CSS, JavaScript, Python, Django, Figma*   **2024**

– Built a responsive web application to deliver seamless video streaming across devices.
– Created an intuitive UI and UX to ensure smooth navigation and consistent playback experience.
– Implemented frontend components using HTML, CSS, and JavaScript with backend integration using Python and Django.
– Created wireframes and design prototypes using Figma to enhance usability and visual flow.

Heliosync – Autonomous Solar Tracking System | *Pascal's Principle, LC Circuits, Voltage Difference Control, Worm Gear Me*

– Developed an autonomous solar tracking prototype to improve solar panel energy efficiency.
– Applied electrical and mechanical principles to develop a sensorless alignment mechanism for tracking the sun's position.
– Derived inspiration from NASA's Parker Solar Probe and adapted the concept for terrestrial solar panel optimization.
– Integrated voltage difference control and LC circuit behavior with a worm gear mechanism for precise panel movement.

Achievements

• Winner of Solvethon 4.0 for SDG Goal 9 with the project **DEMPLAY**.

• Finalist at Climate Tech 2024 for the project **Heliosync**, shortlisted for funding support up to INR 4 Lakhs.

Technical Skills

Programming Languages: Java, Python, C, JavaScript, SQL
Web Technologies: HTML5, CSS3, React.js
Languages: English (Fluent), Tamil (Native)

Leadership / Extracurricular

National Service Scheme (NSS)   **2023 – Present**
Member

– Actively participated as a volunteer and donor in organized blood donation camps.
– Completed a 7-day NSS camp, conducting household surveys and community outreach in rural villages.