BALAJI JAKKALA

Nellore, Andhra Pradesh

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Summary

Hands-on experience in full stack development with a focus on building real-world projects. Demonstrated skills in front-end development by creating a user login form using HTML and CSS. The form featured a clean and user-friendly interface, incorporated input validation, and included error-handling mechanisms to improve usability and overall user experience. Enthusiastic about developing scalable web applications and continuously enhancing coding skills.

Coursework/Skills

- Java
- MS Office
- SQL
- Programming
- OOPS Concept
- HTML&CSS
- **Developer Tools**: VS Code
- **Technologies**: GitHub

Internship

Full Stack Development Intern
Tap Academy, Bangalore
Jan 2025 – Present

- Gained hands-on experience in front-end technologies such as HTML, CSS, and JavaScript.
- Developed a user login form with responsive design, incorporating input validation and error handling for enhanced user experience
- Practiced core Java concepts including OOPs, exception handling, and collections.
- Worked on database connectivity and basic SQL queries to interact with backend systems.
- Participated in weekly coding challenges and real-time mini projects to apply full stack concepts.

Projects

Active Cell Balancing During Charging and Discharging of Lithium-Ion Batteries Using Buck-Boost Converter in MATLAB/Simulink

- Developed a MATLAB/Simulink model for active cell balancing in a 4-cell Li-ion battery system using a Buck-Boost converter topology.
- Implemented control logic to maintain voltage uniformity among cells during both charging and discharging cycles. Analyzed simulation results to validate improved efficiency over passive balancing methods

Education

NBKR Institute of Science and Technology, Vidyanagar
Bachelor of Technology – EEE
2021 – 2025
CGPA: 8.7

Certifications

- MS Office Course – AICT Computer Education
- Python Quiz Certificate – ISTE National Level Socio Symposium