Lethikha Raja Shree

Bachelor of Technology in Electronics and Communication Engineering

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SRM Institute of Science and Technology, Kattankulathur LinkedIn

EXPERIENCE

Software Developer Intern, *ACSASS Offline* 06/2023 – 07/2023

- Developed a full-stack Library Management System. Utilized **React.js** for front-end development and **Django, REST APIs, and SQLite** for back-end implementation.
- Built a secure borrowing/returning workflow by generating unique codes, verified by admins before proceeding with transactions.
- Designed user dashboards to display real-time borrowing history, current borrowed books count, and most recent activity.
- Implemented admin features including user activation/deactivation, user logs, borrow/return tracking, and book CRUD operations.
- Created dynamic UI elements including live search functionality, book sliders, and a detailed modal panel for book previews.
- Focused on responsive, visually appealing UI/UX for enhanced usability across devices.

EDUCATION

Bachelor of Technology in Electronics and communication Engineering, 2022 – ongoing
SRM Institute of Science and Technology, Kattankulathur
CGPA: 8.06

PERSONAL PROJECTS

Serenity AI - Mental Health Chatbot, *An AI-powered web chatbot that provides empathetic mental health support through emotion-aware conversations.*

- Developed a two-page web application using HTML, CSS, and JavaScript to collect user data and deliver person-alized emotional support.
- Implemented rule-based logic for emotion detection and adaptive dialogue using a custom chatbot engine.
- Incorporated user feedback and literature-backed strategies for cognitive behavioral therapy (CBT), breathing exercises, and stress relief.
- Ensured data privacy by storing user information securely in Excel format using browser-based libraries.
- Designed for mobile and desktop compatibility with a focus on empathetic tone and intuitive UI/UX.

Voice Control Wheelchair, *Basically wheelchair is used to move from one place to another. The smart wheelchair has voice command which makes it a lot easier.*

- A wheelchair is a mechanically operated device used by people with physical disabilities to move independently. This voice-controlled wheelchair minimizes their effort and makes it easy for them to use. The smart wheelchair features voice command, making it a lot easier.

Fingerprint Doorlock, *An arduino based fingerprint doorlock prototype.*

- The Fingerprint Doorlock project integrates biometric technology to enhance security by using fingerprints for access control. This system ensures only authorized individuals can unlock the door, providing a high level of safety and convenience. Easy to install and use, it eliminates the need for traditional keys.

ECG Sensor, *It is a digital recording of electrical signals of heart*

- The ECG Sensor project focuses on creating a compact device to monitor heart activity. By capturing electrical signals generated by heartbeats, it provides real-time data for detecting irregularities. This tool is essential for early diagnosis and continuous cardiac health monitoring..

Broken Wire Detector, *The broken wire detector is an innovative device designed to identify breaks or faults in electrical wires and cables.*

- The Broken Wire Detector project aims to develop a reliable system for detecting and locating breaks in electrical wiring. The Broken Wire Detector project involves designing the circuit with EasyEDA software, routing it, and generating a 3D view. After creating the Gerber files, the PCB is fabricated, components are arranged, and the final working output is achieved.

An Analysis of Opinion on Twitter, *using Machine Learning*

TECHNICAL SKILLS AND INTERESTS

Languages
C/C++, Python, Verilog, HTML, CSS

software knowledge:
Easyeda, LTspice, Xilinx, VS code, Framer, Figma, Ansys Icepak,Postman

Relevent Coursework
Electrical and Electronics engineering, Electronic system and PCB design, Digital Logic Design, Solid state devices, Analog and Liner Electronic ciruit, signal processing, industrial Electronics.

Areas of Interest
Embedded Systems, Internet of things, Artificial Intelligence, VLSI, Web Development.

Soft Skills
Problem Solving, Teamwork, Time Management, Leadership, Adaptability

Libraries and Frameworks
React.js,Bootstrap

POSITIONS OF RESPONSIBILITY

Students President at IE(I) Students chapter
03/2024 – ongoing

- Conducted 2 Hackathon event with around 150 students based on Artificial Intelligence
- Conducted a 5 days workshop(major events- Paper Presentation and Hackathon)

Creative Domain Lead at club radiance
03/2024 – ongoing

ACHIVEMEN

ACTIVE STUDENT AWARD 2024, *Best Student award - IE(I)*
For Active Participation and demonstrating consistent involvement and support

APPRECIATION CERTIFICATE, *won Second Prize*
Hackathon "Medispeak: Advancing Speech & Medical Signal Processing"

CERTIFICATE FOR ORGANISATION, *Organised the ATRIXX-hackathon* 03/2024

CERTIFICATION OF APPRECIATION, *Volunteering- 5 days event on Signal Intelligence: Winter School on Image and Signal Processing*

CERTIFICATION OF APPRECIATION, *Student Coordinator*
Organizing the Hackathon: IDEATIONX AI

CERTIFATE OF PARTICIPATION
Participant in AI-ZYPHER'24 Fest at AI TOOLS TECHNOZ Event