

DILEEPKUMAR ADARI

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Experience

Undergraduate Researcher (SERC lab, IIITH)

April 2024 - Present

- Started research on Human-Centered Design and Design Thinking under guidance of Dr. Raman Saxena to enhance user satisfaction, aiming for 100% system usability.
- Conducted a thorough analysis of user feedback on the IMS, leading to actionable insights that improved navigation efficiency and reduced task completion time by 15%, thereby enhancing the overall user experience.
- Working on a research topic named "Empowering ERP Transformations with Lean Core and Human-Centered Design Approach," targeting a 20% to 50% improvement in operational efficiency in ERP systems.

Software Intern (Virtual Labs)

January 2024 - April 2024

- Enhanced the Virtual Labs Online Experiment Authoring Environment by developing a VS Code Web Extension with TypeScript, Webpack, and VS Code APIs, increasing experiment creation speed by 40% and supporting over 1,000+ students.
- Implemented real-time deployment, experiment validation, and security through GitHub integration, reducing experiment setup time by 30% for non-technical users.
- Conducted weekly client feedback sessions to gather actionable insights on product features, leading to the refinement of 10+ functionalities that improved overall user satisfaction scores by 25% within three months.

Web Administrator (IT Office, IIITH)

August 2023 - Present

- Managed high-traffic university websites with over 1,000 daily users, ensuring 99.9% uptime and timely updates.
- Resolved 20-50 technical issues monthly, providing continuous support to ensure website integrity and performance.

Education

International Institute of Information Technology, Hyderabad

B.Tech in Computer Science & Engineering - Current CGPA: 6.81/10

Gachibowli, Hyderabad

2022 - Present

Rajiv Gandhi University of Knowledge Technologies

Pre University Course - CGPA: 9.35/10

Etcherla, Srikakulam

2020 - 2022

Relevant Coursework

- Data Structures and Algorithms
- Operating Systems and Networks
- Design and Analysis of Software Systems
- Algorithm Analysis and Design
- Computer Systems Organization
- IoT
- Embedded Systems Workshop
- Intro to Information Security
- Computer Graphics
- Data and Applications (DBMS)
- Machine Learning

Projects

Smart Crop/Plant Monitoring (Team Project | Flask, ThinkSpeak, OM2M)

[Source Code](#) - [WebLink](#)

Created Greenplant, a real-time plant monitoring website utilizing sensor data with 95% accuracy. Implemented live data visualization, alerts for plant stress, and remote monitoring.

VsCode Web Extension (Team Project | Typescript, Webpack, GitHub API)

[Source Code](#) - [WebLink](#)

Developed a VSCode Web Extension for creating and modifying virtual experiments online. Simplified experiment authoring for over 1,000 users with real-time GitHub integration and a user-friendly interface.

Network File System (Team Project | C, Concurrency, Networking)

[Source Code](#) - [Execution](#)

Built a fault-tolerant distributed file system using TCP sockets and POSIX C, ensuring data integrity and availability across two backup storage servers.

Smart PowerGrid (Team Project | PHP, JS, OM2M, ThingSpeak)

[Source Code](#) - [WebLink](#)

Built an IoT-based grid management system for efficient energy use, incorporating sensor data, real-time visualization, and appliance control, reducing energy consumption by 15%.

Others

[GitHub](#)

Portfolio Website, Version 1.0 portfolio (Old), Conference Booking API, Blog Website, Mess Inspection Recorder, Clubs Council, Simple Shell, Enhanced Xv6 Shell, Authentication System, Music Mania, Facebook Clone, Attendance Management System, Split Bill, Stop Watch

Skills

Languages: Python, JavaScript, C, C++, PHP, TypeScript, Latex

Backend: Flask, Next.js, Node.js, Express.js, FastAPI, GraphQL

Frontend: React, TailwindCSS, HTML, CSS, Bootstrap, Figma

Clouds & Databases: MySQL, MongoDB, SQLite, Thingspeak, OM2M

Web Technologies: Docker, Nginx, Apache, WordPress, Webpack, Tinkercad

Developer Tools: Linux, phpMyAdmin, Postman, Arduino, VS Code, Git

Other Skills: Networking, Leadership and Teamwork, Collaboration

Known Languages

English, Telugu, Hindi

Interests / Hobbies

Listening to Music

Exploring Technology

Literature.

Achievements

Bharat Intern Certification in Full-Stack Development

January 2024

DevTown Certification in Web Development Bootcamp

May 2022

Shape AI Certification for Python and Cyber Security

June 2021