

# DILEEP KUMAR ADARI

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## Experience

### Google Summer of Code 2025 @ Joomla! CMS

May 2025 – Sep 2025

- Designed and executed a **workflow management** solution building an interactive visual tool enabling users to seamlessly manage article stages and transitions in Joomla CMS, reducing navigation from 6-7 pages to a single unified interface.
- Led 3 projects leveraging Vue.js, PHP, Joomla Framework, and open-source collaboration, achieving 300% increase in efficiency and improving project delivery timelines by 12 weeks.

### Undergraduate Researcher, SERC Lab (IIIT Hyderabad)

Apr 2024 – Present

- Conducting research in **human-centered design, human-computer interaction, and design thinking** under Dr. Raman Saxena, with a focus on enhancing user satisfaction and system usability in complex systems.
- Introduced ERP system enhancements using design thinking, usability testing, and accessibility best practices, resulting in improved user satisfaction and streamlined workflows for 2000+ users.

### Software Intern, Virtual Labs

Jan 2024 – Apr 2024

- Created the Virtual Labs 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.
- Integrated GitHub deployment, experiment validation & security features, reducing setup time for non-technical users by 80%.
- Facilitated weekly client feedback sessions, refining over 10 product features and completing the project in 70 days.

### Web Administrator, IT Office (IIIT Hyderabad)

Aug 2023 – Present

- Managed and maintaining high-traffic university websites with over 1,000 daily users, ensuring uptime and timely updates.
- Resolved 20-50 technical issues monthly, ensuring uninterrupted web services and optimal site performance.

## Education

### International Institute of Information Technology, Hyderabad

Aug 2022 – Present

Bachelor of Technology in Computer Science & Engineering - Expected May 2026

CGPA: 7.08/10

**Coursework:** • Data Structures and Algorithms • Operating Systems and Networks • Database Management Systems • Software Engineering • Data Analytics • IoT • Embedded Systems • Information Security • Computer Graphics

## Projects

### University Canteen Management (Team Project | React js, FastApi, GraphQL ) [Source Code](#) — [Live Demo](#)

- Engineered **CanteenX**, a scalable web platform integrating vendors, students, and institute committees to streamline food ordering, payments, and stock tracking across multiple outlets.
- Designed and implemented a modular order and inventory management system using FastAPI and GraphQL, automating data flow between vendors and reducing average student waiting time by 40%, while improving transparency in operations.

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

[Source Code](#) — [Live Demo](#)

- Developed **PlantIQ**, a sensor-driven monitoring system capable of detecting plant stress, hydration levels, and nutrient imbalances with 95% accuracy by data analysis.
- Built real-time visualization dashboards with remote access, live data graphs, and intelligent alert notifications, enabling farmers to monitor environmental health, predict yield outcomes, and take measures to prevent crop loss.

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

[Source Code](#) — [Execution](#)

- Implemented a **fault-tolerant distributed file storage system** ensuring high data availability and consistency across multiple nodes by leveraging TCP socket communication and parallel request handling.
- Integrated replication, synchronization, and recovery algorithms, enabling automatic backup and restoration of files in case of server failures, achieving near-zero downtime and data reliability under network stress.

### Other Projects

[GitHub](#)

Tourism ToolKit • Smart Power Grid • Conference Booking API • Digital Library System, BlogNest • Finance Learning App • VoteArena • Trendify • ChatWrap • FaceBook Clone • Mess Inspection Tool • SplitMate • LifeBook • TimeTrack • Music Mania • PEC db • WebHunt • Enhanced Xv6 Shell • Mini Shell

## Skills

**Languages:** C, C++, Python, JavaScript (ES6+), TypeScript, PHP

**Frameworks:** Next.js, React, FastAPI, Flask, Node.js, Tailwind CSS

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

**Technologies:** Docker, PM2, Nginx, Apache, WordPress, Joomla! CMS

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

**Soft Skills:** Leadership & Teamwork, Work independently, Communication

### Known Languages

English, Telugu, Hindi

### Interests / Hobbies

Listening to Music

Coding & exploring Tech

## Achievements

Google Summer of Code 2025 @ Joomla! CMS

September 2025

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