

# DILEEP KUMAR ADARI

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## EDUCATION

### International Institute of Information Technology, Hyderabad

Bachelor of Technology in Computer Science & Engineering with Honors

Aug 2022 - Present

Expected Graduation - May 2026

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

## EXPERIENCE

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

May 2025 - Sep 2025

- Engineered a robust, end-to-end workflow management solution with an intuitive visual tool that simplified article stage management in Joomla CMS, consolidating a 6-7 page process into a single, unified interface.
- Spearheaded 2 concurrent projects including a plugin using Vue.js, PHP, and Joomla Framework, significantly improving the delivery timeline by 2 weeks through proactive open-source collaboration and communication.

### Undergraduate Researcher | SERC Lab, IIIT Hyderabad

Apr 2024 - Present

- Investigating the core principles of applied human-centered design and human-computer interaction under Dr. Raman Saxena over the last 15 months to enhance user satisfaction and usability of complex software systems.
- Enhanced user-centric ERP system enhancements used by 4,000+ people by applying design thinking, usability testing, accessibility, streamlining workflows for over ten use cases and measurably improved user satisfaction.

### Software Engineering Intern | Virtual Labs

Jan 2024 - Apr 2024

- Architected and developed a VS Code Web Extension using TypeScript, GitHub actions and Webpack to create the Virtual Labs Authoring Environment, streamlining the creation workflow for over 1,000 students.
- Drove the refinement of more than 10 product features by facilitating weekly client feedback sessions and fostering effective collaboration between technical and non-technical teams, delivering the project within time.

### Web Administrator | IT Office, IIIT Hyderabad

Aug 2023 - Present

- Ensured high availability and reliability for university websites serving over 1,000 daily users through real-time health monitoring & streamlined deployment pipelines, enabling rapid incident diagnosis and resolution.
- Diagnosed & resolved 10-30 technical issues per month, ranging from backend errors to performance bottlenecks, through debugging by reducing downtime & maintaining service continuity for critical university web infra.

## PROJECTS

### University Canteen Management (React.js, FastAPI, GraphQL)

[Source Code](#) | [Live Demo](#)

- Architected and built CanteenX, a scalable, full-stack web platform designed to support a complex ecosystem of multiple vendors, student accounts, and administrators to streamline food ordering and payments.

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

[Source Code](#) | [Live Demo](#)

- Developed PlantIQ, a sensor-driven monitoring system capable of detecting plant stress, water requirement and nutrient imbalances with 95% accuracy by analyzing real-time sensor streams to proactively alert farmers.

### Network File System (C, Concurrency, Networking)

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

- Built NFSDrive, a distributed, fault-tolerant file system in C from the ground up, implementing all networking & concurrency, utilizing TCP socket programming to ensure high data availability & consistency.

### Redesigned Institute Management System (Figma, Prototyping)

[Figma](#)

- Designed a comprehensive transition plan from Legacy Systems to Institutional ERP applying Human-Centered Design for IMS, outlining pilot usability testing, methodology, findings, & prioritized design recommendations.

### Additional 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

## TECHNICAL SKILLS

- Languages:** Python, C, C++, JavaScript, TypeScript, Bash, PHP
- Frameworks:** FastAPI, Flask, React, Node.js, Next.js, Tailwind CSS
- Clouds & Databases:** SQL, MongoDB, ThingSpeak, OM2M
- Technologies:** Docker, PM2, Nginx, Apache, WordPress, Joomla! CMS
- Developer Tools:** Git, Linux, phpMyAdmin, Postman, Arduino, VS Code

## ACHIEVEMENTS & POSITIONS OF RESPONSIBILITY

- Achieved a peak rating of 1300 (Pupil) on Codeforces
- Selected for the Google Summer of Code 2025 program
- Worked as a Teaching Assistant for the Software Systems course at IIIT Hyderabad
- Led community engagement initiatives as the Head of Social Media for NSS-IIITH