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`) <u>Source Code</u> — <u>Live Demo</u>
- 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`) <u>Source Code</u> — <u>Live Demo</u>
- 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`) <u>Source Code</u> — <u>Execution</u>
- 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 <u>GitHub</u>

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