

Harshith reddy Madhadi

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Education

Gandhi Institute of Technology and Management

B.Tech in Computer Science and Engineering (CGPA: 9.40/10)

Hyderabad, India

2022 – 2026

Work Experience

Erzy Inc | Full Stack Developer Intern

May 2025 - July 2025

- Designed and documented **system architecture** for a flagship product, establishing a roadmap to enhance future scalability and ensure 99.9% uptime.
- Engineered a robust, fault-tolerant solution for the low-level **Telegram MTProto API**, enabling secure and persistent real-time connections for a critical user notification feature.
- Re-architected the processing pipeline for **AI-powered Telegram interactions** by implementing asynchronous task queues, resulting in a 60% reduction in average response latency.

Freelancing | Backend Engineer

Jan 2025 - Present

- Developed a Discord bot to automate support ticket management for a crypto wallet company with 100K+ users.
- Built a Discord casino bot with interactive games and a virtual economy to drive user engagement.

Projects

G-Learn Notifier — Open Source Tool

Nov 2024 - Present

- Developed an open-source tool that polls the GITAM LMS for new assignments and grade changes, sending real-time notifications.
- Addressed a critical feature gap in the official university system, providing students with timely academic updates.

Custom LMS Platform

May 2024 - Jun 2024

- Designed and built a bespoke Learning Management System (LMS) from the ground up for a local coaching center.
- Implemented essential features including an interactive **quiz engine**, live class integration, and course material management.
- Deployed the platform, creating a centralized and efficient digital learning environment for students and faculty.

JIT (Version Control System)

Mar 2024 - Apr 2024

- Engineered **JIT**, a version control system from scratch in Java, to replicate the core architecture and concepts behind Git.

Competitions

GITAM Smart India Hackathon

Sep 2024

- Led a team of 6 members to secure the **first position** for a smart trucking management solution for post offices.
- Drove the frontend development process, ensuring a cohesive and responsive user interface for the application.
- Implemented a **real-time dashboard** to visualize truck locations, cargo status, and delivery progress.
- Developed an algorithm and interface to optimize cargo capacity, maximizing the **logistical efficiency** of trucks.

Pramana Hackathon

Feb 2025

- Key backend developer in a team of 6 that built a full-stack **course management platform** like Khan Academy.
- Engineered a **Digital Rights Management (DRM)** system to protect proprietary video content from unauthorized access.

Technical Skills

Programming Languages

Golang, Javascript, Typescript, Python, SQL, Java, Bash, C

Frameworks & Databases

Node.js, React.js, Next.js, PostgreSQL, SQLite, MongoDB, Redis

Tools & Platforms

Linux, Git/GitHub, Docker, Caddy, Vim, AWS EC2, gRPC

Positions of Responsibility

Cogaan Club | Coding Lead

Jul 2024 - Jun 2025

- Hosted a specialized workshop teaching Linux fundamentals and self-hosting principles to a cohort of over 50 students.
- Engineered and launched the club's official website **cogaan.tech** with my team from concept to deployment, improving online presence and information accessibility.

Google Developers Groups on Campus | Cloud Computing Lead

Aug 2024 - Jun 2025

- Architected and developed a full-stack, open-source **RSVP application** using Next.js, TypeScript, and Firebase to streamline event management and promote open-source collaboration.
- Organized and facilitated a "Build with Google Gemini" workshop, guiding 40+ students through the process of creating functional Telegram chatbots powered by Google's AI.