

Potnuru Tarun

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PROFESSIONAL SUMMARY

Final-year Computer Science student with a strong foundation in Data Structures, Algorithms, and Full-Stack Development. Skilled in building web applications using the MERN stack and experienced in applying Machine Learning concepts through a minor specialization. Actively developing production-ready projects and internships that combine software engineering and AI-driven technologies. Seeking opportunities to contribute to innovative teams in real-world industry environments while growing as a full stack developer, software engineer and AI practitioner.

EXPERIENCE

ML Research Intern May 2025 – July 2025
NIT Warangal Warangal, India

- Worked on a Federated Learning-based system to detect Low- rate Denial of Service attacks in Software-Defined Networks (SDN), focusing on privacy-preserving model training, peak-based traffic analysis, and real-time threat detection.
- **Tools and technologies:** Federated Learning, Linux.

Full Stack Intern May 2025 – July 2025
LiveBreak: Local Breaking News Platform Nuzvid, India

- Developed and maintained frontend and backend features for a real-time local breaking news platform used by the public to access instant news updates.
- **Tools and technologies:** React.js, Node.js, MongoDB.

Full Stack Intern Jan 2025 – March 2025
Teckzite: RGUKT's Tech Fest Platform Nuzvid, India

- Built and optimized frontend and backend modules for RGUKT's official tech fest management platform, supporting thousands of students for registrations, schedules, and event updates.
- **Tools and technologies:** React.js, Node.js, MongoDB.

EDUCATION

Bachelor's in Computer Science Engineering (GPA: 9.1) July 2022 – July 2026
Rajiv Gandhi University of Knowledge Technologies - RGUKT Nuzvid, India

Minor Degree in Machine Learning (GPA: 9.0) July 2024 – July 2026
Rajiv Gandhi University of Knowledge Technologies - RGUKT Nuzvid, India

PROJECTS

LDoS Attack detection using Federated Learning in SDN | Research at NIT May 2025 – July 2025

- Implemented a Federated Learning-based LDoS Attack Detection System focusing on decentralized model training for improved privacy and real-time detection in SoftwareDefined Networks (SDN).
- Successfully implemented machine learning model that gives accurate results in real-time.
- **Tools and technologies:** Python, Machine Learning.

Medora Platform | Bridge between Doctors and Rural People December 2024 – February 2025

- Developed a project connecting doctors with rural communities, enabling specialist searches, appointment booking, and report access using MERN stack and open source AI
- **Tools and technologies:** MERN Stack

Teckzite Platform | RGUKT's Tech Fest Portal | Live January 2025 – March 2025

- Engineered event registration, dashboards, and scalable backend architecture, handling thousands of student users
- **Tools and technologies:** MERN Stack

TECHNICAL SKILLS

Core Foundations: Python, C, Data Structures & Algorithms, SQL, JavaScript, HTML, CSS.

AI/ML: Machine Learning, Deep Learning, Neural Networks, Federated Learning

Technologies/Frameworks/Libraries: React.js, Node.js, Express, REST API's.

Developer Tools: Git/Github, VS Code, Postman.

Databases: MongoDB, MySQL

COURSEWORK

Undergraduate: Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems, Full Stack Development, AI.

CERTIFICATIONS

- Machine Learning: Supervised and Unsupervised Learning
- Deep Learning: ANN, CNN and RNNs.
- Developing Front-End Apps with React.

ACHIEVEMENTS

- Solved 250+ LeetCode problems, demonstrating strong problem-solving ability.
- Full Stack Coordinator, RGUKT CSE Dept: Led 10+ technical sessions on MERN and backend web design.
- Technical Coordinator, Teckzite 2025: Led all technical events in Teckzite'25
- Top 8 National Finalist — Avishkaar 2024 Hackathon