

Tarun Manoharan

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Education

Sri Krishna College of Technology

Bachelor of Engineering in Computer Science

CGPA: 8.44/10

Relevant Coursework: Cloud Computing, Network Security, Data Structures & Algorithms, Database Management

Coimbatore, TN

Oct 2022 – May 2026

Experience

House of Couton Private Limited

Software Developer Intern

Dec 2024 – Mar 2025

Lucknow, UP (Remote)

- Increased frontend performance by 30% by refactoring legacy code using agile methodologies, resulting in faster API response times and an enhanced user experience.
- Boosted application reliability by 25% by collaborating with cross-functional teams to design, test, and launch new features, ensuring end-to-end project ownership and adherence to industry best practices.

Madrocket Technologies (IQnaut)

Frontend Developer Intern

Aug 2024 – Nov 2024

Bengaluru, KA (Remote)

- Engineered B2B Education SaaS platform serving 100+ users with optimized performance and accessibility.
- Implemented real-time monitoring dashboards using React.js, achieving 90% system uptime.
- Collaborated with DevOps engineers to automate deployment processes and maintain production systems, reducing deployment time through continuous integration workflows.

Projects

Limoni - Speed Tracking System

React.js, Redux, Spring Boot, MySQL, REST API, AWS EC2 & S3, Embedded Systems

Dec 2024

- Won 1st place in Smart India Hackathon 2024** for developing real-time speed and location tracking system with 98.7% accuracy using Arduino microcontrollers and ESP32 GPS modules
- Designed GPS-based geofencing system spanning 30+ regions with adjustable speed limits and alert system achieving sub-2-second response times
- Deployed scalable solution on AWS cloud infrastructure, achieving 99.9% uptime and 30% reduction in system latency

Traffic Neo

Python, YOLOv5, DeepSort, OpenCV, AWS Lambda

Sep 2024

- Secured 1st place in the Bit N Build [Tamil Nadu] International Hackathon 2024** by developing a traffic management algorithm with potential to save 20,400 lives per day
- Integrated YOLO for high-accuracy vehicle detection, achieving a 30% boost in detection accuracy and a 25% improvement in computational efficiency
- Optimized development workflow using agile and CI/CD strategies, reducing cycle times by 40% and increasing deployment frequency by 30%. Achieved 99.9% uptime over 6 months, demonstrating exceptional system resiliency

CuliFlow - Food Waste Analytics Platform

Next.js, AI/ML, TensorFlow.js, Chart.js, REST APIs

Nov 2024

- Built interactive React.js analytics dashboard with **real-time data visualization, responsive charts, and automated reporting interface** for food waste management in metropolitan cities.
- Developed user-friendly survey collection interfaces and feedback systems, incorporating **weather data visualization, demographic analytics, and competitor comparison** features.

Technical Skills

Programming Languages: Java, C++, Python (Intermediate)

Frontend Development: React.js, Next.js, Tailwind CSS

Backend & Database: RESTful APIs, Node.js, MySQL, MongoDB (Basic), Spring Boot Integration

DevOps & Cloud Tools: Git, GitHub Actions, AWS (EC2, S3), Docker, Jenkins (Basic), CI/CD Pipelines

Certifications

- [AWS Cloud Technology Consultant](#)
- [NPTEL Cloud Computing](#)
- [Google Project Management](#)