

# TANESH S. ASHAN

📍 Nashik, Maharashtra

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📁 [Portfolio](#)

## EDUCATION

**Indian Institute of Information Technology, Sri City (IIIT Sri City)**  
Bachelor of Technology in Computer Science (CSE)

November 2022 - December 2026  
**GPA: 7.86**

## SKILLS

**Languages** : C, C++, Java, Python, JavaScript

**Frameworks**: Django, Flask, React, Node.js, Express.js

**Concepts** : Algorithms, Data Structures, OOP, Software Design Principles, Microservices

**Tools** : Git, Docker, FastAPI, LangChain, LangGraph, Power BI, VS Code, Agile Practices

## WORK EXPERIENCE

**AI4Bharat, IIT Madras** 🌐

June 2025 – September 2025

*Software Developer (Remote)*

- Designed and implemented reporting and monitoring features with interactive visualizations reducing incident response time by 35% and enabling faster decision-making for 10+ active research tasks.
- Optimized backend pipelines by standardizing CSV formats and refining task-time calculations, cutting processing errors by 10% and ensuring accurate analytics across 1,000+ tasks.
- Streamlined user experience and system stability in Chitralekha by enabling in-progress SRT downloads, validating task payloads, and resolving bottlenecks in VO/VOTR processing.

**Bosch India, Maharashtra** : 🌐

May 2024 – August 2024

*Web Development Intern*

- Developed a full-stack Intern Management System (Django) with secure authentication, automated notifications, and analytics dashboards, cutting onboarding time by 50%.
- Improved reporting workflows by adding Excel-based data exports, visualizations, and efficient queries, reducing reporting time by 25% and enhancing cross-team accessibility.

## PROJECTS

**QuikLearn** 🌐 🌐

*React, Node.js, Express.js, MongoDB*

- Built a scalable e-learning platform using the MERN stack with secure user authentication, role-based access control, and real-time collaboration features.
- Crafted modular React components and RESTful APIs to ensure clean architecture, code reusability, and seamless frontend-backend integration.
- Enhanced backend performance through caching and query tuning, reducing average response time by 25%, p99 latency by 62.5%, and boosting session efficiency by 47%.

**Generate-Awesome** 🌐 🌐

*Python, Flask, React, TypeScript, LangChain*

- Engineered an AI-powered project generator leveraging multi-agent workflows to automatically convert natural language prompts into complete web projects.
- Created a modern React frontend with live code editing, Monaco editor integration, real-time status tracking, and a Flask backend with asynchronous generation and file management APIs.

## PUBLICATIONS

**Performance Analysis of Weighted Victim Cache Replacement Policy** : 🌐

ICCCNT 2025

*16th International Conference on Computing, Communication and Networking Technologies (Paper ID: 8957)*

- Proposed and implemented **WVCRP** in **ChampSim** (C++) to improve LLC performance.
- Designed a compact 1-byte metadata structure, achieving efficiency gains over LRU.

## CERTIFICATIONS

- Generative AI Model**, NXT Wave 🌐
- Website Development**, Mayur i Technologies 🌐