

KARTHIKEYA MADHAVAN

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github.com/karthikeyamadhavan123 | my-portfolio-1a2r.vercel.app/

EDUCATION

National Institute of Technology

B.Tech in Computer Science

Tadepalligudem, AP

Nov 2022 – present

– Cumulative GPA: **8.0/10.0**

– Relevant Coursework: Machine Learning, Advanced DSA, OOPS, DBMS, OS, Computer Networks

Srichaitanya Institute

Intermediate College

Apr 2020 – Nov 2022

– Percentage: **98.6%**

WORK EXPERIENCE

Software Developer Intern

BeeS Software Solutions Pvt Ltd

May 2025 - Jul 2025

Hyderabad

- Enhanced core modules for **"BeeS Cloudilya - The ERP Sutra"** automating college processes
- Executed admission, attendance, and LMS systems handling 10,000+ student records
- Optimized database queries reducing response times by 35% for hostel management module
- [View Certificate] from Chairman & MD Mrs. Beena Parthasarathy Putcha

Full Stack Web Developer

Unified Mentor

Sep 2024 - Nov 2024

Gurgaon, Delhi

- Pioneered real-time quiz app with 5+ question formats (72 min avg usage)
- Designed analytics dashboard using **Chart.js/D3.js** (200+ students, 95% accuracy)

TECHNICAL SKILLS

- **Programming Languages:** Python, Core Java, C/C++, Haskell, R
- **Web Technologies:** React, Next.js, Node, Express, MongoDB, Spring Boot, AWS, TypeScript, Figma, UI and UX Design

SCHOLASTIC ACHIEVEMENTS

- Created and deployed the official website for **Techkriya 2024**, the 3-day national-level technical symposium of NIT Andhra Pradesh, streamlining registration for 30+ events and improving participant turnout by 40%.

PROJECTS

Store IT - Cloud Storage Platform

MERN Stack

- Engineered scalable file storage system using **Next.js, Appwrite, Redux** with granular permission controls
- Applied **real-time collaboration** features with WebSockets, enabling simultaneous document editing
- Enhanced compression algorithms reducing storage requirements by 35% and optimizing file transfer speeds
- Built responsive UI with **Tailwind CSS** achieving 98/100 mobile performance on Lighthouse

Wanderlust – AI-Powered Travel Planner

Full Stack + AI

- Architected **OpenAI API integration** for generating personalized itineraries based on user preferences
- Crafted **content-based filtering algorithm** analyzing 10+ parameters to recommend destinations
- Established **caching system** reducing API calls by 60% and cutting response times from 3s to 0.8s
- Incorporated **geospatial data APIs** to provide real-time transit information and walking-distance POIs

GymLink - Fitness Community Platform

React, Node, MongoDB, Express

- Constructed interactive platform connecting fitness enthusiasts and trainers using **MERN stack** (300+ active users)
- Expanded **workout tracking system** with progress visualization (25% faster goal achievement)
- Enforced **real-time communication** features including video coaching and messaging (40% reduced latency)
- Devised **partner matching algorithm** analyzing 8+ fitness parameters with 85% satisfaction rate