

NIKHILESH TIRUVEEDULA

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Education

International Institute of Information Technology, Hyderabad

Aug 2023 – Present

Bachelor of Technology with Honors in Computer Science Engineering, CGPA: 8.23/10.00

Hyderabad, Telangana

Relevant Coursework

Data Structures & Algorithms | Algorithm Analysis and Design | Operating Systems & Networks | Data & Applications | Probability & Statistics | Machine Learning & Data Science | Computer Systems Organization | Design & Analysis of Software Systems | Introduction to Software Systems | Linear Algebra | Discrete Mathematics

Experience

Software Engineering Research Center

May 2025 – Present

Undergraduate Researcher under Prof. Raghu Reddy

IIIT Hyderabad, Hyderabad, India

- Conducting research on location-specific image marker generation for ARCore using image processing techniques, aimed at improving detection accuracy and tracking performance in marker-based AR navigation systems
- Analyzing limitations of QR and fiducial markers (ARCore, Vuforia, OpenCV) and developing tools for robust, real-time marker-based navigation.

Dyadic Health

Jan 2025 – Apr 2025

Software Developer Intern

Hyderabad, Telangana

- Built cross-platform mobile app serving 200+ beta users using React Native and Spring Boot, integrating DynamoDB for 99.9% uptime and Mistral-7B LLM achieving 85% user satisfaction
- Architected AI-powered wellness tracker reducing caregiver stress by 30% through adaptive ML algorithms processing 1000+ daily health metrics for personalized recommendations

Projects

IIIT Mart — Live Demo | MERN Stack, Google Gemini API

Jan 2025

- Created a full-stack e-commerce platform with 99.9% uptime for 500+ users, integrating secure JWT authentication, real-time WebSocket updates, AI-driven recommendations with 85% accuracy through Google Gemini API integration

Ticketing Platform for Fest | MERN Stack, MongoDB, Express.js

Jan 2025

- Enhanced a responsive MERN stack application handling 2000+ registrations for Felicity fest across 15+ club events, reducing registration time by 60% and providing administrators with real-time analytics dashboard managing 50+ concurrent bookings

Network File System (NFS) | C, POSIX, Socket API, Data Structures

Nov 2024

- Designed a distributed file system with LRU caching for 40% faster access, 99.5% redundancy via 3-server replication, and 1000+ CRUD ops/min for 100+ clients

Social Media Database Management System | Python, MySQL, SQL

Nov 2024

- Engineered and deployed a comprehensive MySQL-based relational database for a social media platform, managing 10,000+ users and 50,000+ posts with optimized schema design, indexing, and analytics support, reducing query time by 70% and handling 500+ concurrent transactions.

CShell - Custom Command Line Interface | C, POSIX, System Programming

Aug 2024

- Developed a robust custom shell supporting 20+ Native Shell commands, advanced features like multi-level piping, I/O redirection, and efficient history tracking of 1000+ commands with 95% Unix compatibility.

Technical Skills

Languages: Python, JavaScript, C++, C#, C, HTML/CSS, SQL, TypeScript

Developer Tools: Git, VS Code, Postman, Docker, Linux, Unity, Figma, Canva

Technologies/Frameworks: React.js, Express.js, Node.js, React Native, MySQL, MongoDB, DynamoDB, ARCore, Next.js

Achievements

- Secured All India Rank 1067 (CRL) out of 1.2 Million candidates in JEE-Mains with 99.91 percentile
- Attained All India Rank 3160 (CRL) out of 1.5 Lakh candidates in JEE-Advanced
- Merit List Awardee for Academic Excellence in Monsoon 2023 semester
- Codeforces Specialist (Max Rating: 1452) - Profile

Leadership & Extracurricular Activities

Felicity 2026 - Annual Technical Festival

Present

Technical Team Head

IIIT Hyderabad

Students' Alumni & Connect Cell (SACC)

Aug 2024 – Present

Technical Team Member

IIIT Hyderabad