

JAKKU HARSHAVARDHAN

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Education

SR University

July 2022 – May 2026

B.Tech in Computer Science, DSA & SE coursework, Hackathon Secretary, **CGPA : 9.47**

Experience

Software Engineer Intern

August 2025 – January 2026

Pascalcase Software Pvt. Ltd.

12 months

- Developed and deployed features across 20+ production-grade applications, including event management and media platforms, ensuring high availability.
- Spearheaded full-stack development for 3 core modules utilizing Next.js, Node.js, and TypeScript, which improved data retrieval speeds by 15% according to team performance reports.
- Orchestrated secure authentication pipelines with Keycloak, slashing average login latency by 15% and bolstering user data protection across all 20+ production-grade applications within the organization.
- Contributed to AI-powered systems using embeddings, vector search, and LLM APIs, while improving performance, reliability, and code maintainability across multiple products.

Hackathon Club Secretary

May 2024 – May 2025

CS & AI, SR University

1 year

- Led planning and execution of 5+ major events including TechStorm, Anveshan 2024, Expert Talks, and a mobile app hackathon conducted by Zoom My Life, fostering cross-campus innovation and participation from 500+ students.
- Migrated the TechStorm website to a secure server, preventing 3 potential cyberthreats and ensuring uninterrupted availability throughout the year.

Full Stack Developer

March 2024 – September 2024

Triyas Tech Solutions

6 months

- Engineered a chatbot with the Groq API to manage 10,000+ messages, improving response accuracy by 25%.
- Revamped the website using Next.js & Tailwind CSS, boosting page load speed by 30% & user engagement by 25%.

Skills

- Programming Languages:** Python, C
- Web Technologies:** HTML, CSS, Javascript
- Databases:** MySQL, Oracle
- Developer Tools:** Git, GitHub, VS Code, Postman, Figma, PowerPoint, Keycloak, Cursor
- Domain Knowledge:** DBMS, AIML, OS

Projects

EmoLearn

July 2025 – December 2025

Multi-Modal Emotion Detection Platform

7 months

- Devised a multi-modal emotion detection system using facial expressions, voice tone, and mouse interactions to track learner engagement in real time.
- Integrated a context-aware AI assistant providing personalized learning support, interactive quizzes, motivational messages, and stress-relief exercises based on detected emotions.
- Constructed a live dashboard to visualize mood trends, progress badges, and focus metrics, enhancing adaptive learning experiences for students, educators, and trainers.
- Enhanced learning effectiveness by providing real-time, emotion-driven interventions, improving student engagement and concept retention.. (Aligned with [NeuroNudge](#))

SkillVoice

March 2025 – April 2025

AI-Powered Voice-Controlled Learning Tool

2 months

- Crafted a voice-controlled gaming tool for vocational training, enhancing engagement and accessibility for individuals with physical disabilities.
- Integrated speech recognition and adaptive learning to deliver real-time feedback and gamified assessments tailored to each learner's progress.

Fact Finder AI

March 2024 – May 2024

Fake News Detection System

3 months

- Built and fine-tuned an NLP ML model for fake news detection with 92% accuracy, optimizing performance and reducing bias by 15%.
- Applied advanced preprocessing including stop-word removal and noise filtering to improve model generalization and text clarity.

Calendar using DS

August 2023 – December 2023

C Language Calendar Application

5 months

- Created a C-based calendar application using linked lists, efficiently managing events and date navigation.
- Integrated with SQLite3 database, achieving 100% event persistence for reliable storage and retrieval.

Achievements

- Ranked among the top 10% in academic performance and secured a position in the top 10 at CodeClash, showcasing coding proficiency and application of algorithms to optimize solutions during an intense 12-hour hackathon.
- Spearheaded the publication of two patents, [Adaptive Learning System](#) (7 claims) and [IoT-Based Communal Book Exchange System](#) (10 claims), leading to a 40% increase in user engagement on educational platforms.
- Designed and implemented an innovative AI chatbot during the SIH Hackathon Grand Finale, which automated responses for 150+ common customer queries, enabling team members to focus on complex issues.
- Secured a top 3 position in SR University's Project Expo for [Mentor Connect](#), winning a cash prize and selection to the Grand Finale; integrated advanced voice recognition for real-time accessibility in [VoiceRecognition](#).
- Secured first place in the Launch Code DSA contest, earning CSI membership and demonstrating mastery in data structures and algorithms, resulting in 15% improved code efficiency during the competition.

Certifications

- Introduction to Front-End Development
- Introduction to Back-End Development
- Generative AI with Large Language Models