

AADARSH JHA

Final Year CSE Undergraduate at VIT Vellore

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SUMMARY

A final-year Computer Science undergraduate at VIT Vellore with advanced expertise in full-stack development and cloud infrastructure. Demonstrated track record of building scalable web applications, optimizing system performance, and delivering innovative technological solutions across diverse domains including HR tech, education platforms, and enterprise systems.

EXPERIENCE

AI & Full Stack Intern at Xoxoday

January 2023 - Present

- Engineered a sophisticated AI-powered chatbot leveraging vector databases, generating comprehensive reports and actionable engagement insights that significantly reduced manual reporting time for clients.
- Orchestrated external vendor API integrations (e.g., Workday) to enable seamless HR platform synchronization, automating complex data workflows.
- Developed a dynamic leaderboard event tracking system with automated reward allocation, directly enhancing user engagement metrics in the Empuls platform.
- Implemented WhatsApp integration for real-time notifications, driving cross-country user adoption and platform interaction.

Full Stack Intern at Proelevate

June 2024 - Present

- Architecting comprehensive features for multi-domain platforms including event hosting, job listings, and a full Learning Management System (LMS).
- Strategically scaled backend and AWS cloud infrastructure to support content delivery for 100K+ users, resulting in a 15% spike in Daily Active Users (DAU).

Full Stack Intern at Xoxoday

August 2023 - December 2023

- Streamlined in-house sales dashboard to optimize order processing workflows and automated product listing management.
- Executed performance optimization of database and API infrastructures using advanced monitoring tools like Kibana and Elasticsearch.
- Reduced critical system response times by 40% through targeted performance engineering techniques.

PROJECTS

Real Estate Management Platform

Freelance Project

- Architected a comprehensive full-stack solution for real estate property management with end-to-end workflow automation.
- Implemented Gmail API integration to automate lead generation, parsing over 500+ emails monthly with intelligent filtering.
- Developed a centralized property management system tracking maintenance schedules, renovation status, and tenant information.
- Created dynamic dashboards with real-time analytics for property performance, occupancy rates, and financial metrics.
- Built automated notification systems for maintenance alerts, lease renewals, and critical property updates.
- Technologies Used: Next.js, TypeScript, Node.js, Gmail API, PostgreSQL, Tailwind CSS

Pricing Tool for Samsung MENA

Academic Project

- Designed a sophisticated pricing and monitoring platform for comprehensive e-commerce product analysis.
- Implemented web scraping techniques using Puppeteer to collect real-time pricing data across multiple platforms.
- Developed advanced data visualization dashboards for competitive pricing intelligence.
- Automated price tracking and comparative analysis for Samsung product lines.
- Technologies Used: NextJS 14, TypeScript, NodeJS, Puppeteer, React Chartjs

Live Streaming Platform (Twitch Clone)

Personal Project

- Engineered a full-stack live streaming application with real-time communication capabilities.
- Implemented WebRTC-based streaming infrastructure using LiveKit for low-latency video transmission.
- Created robust user authentication and stream management systems.
- Developed interactive features including live chat, stream key generation, and audience engagement tools.
- Technologies Used: NextJS 14, TypeScript, Tailwind, Prisma, LiveKit

AI-Enabled University Engagement Chatbot

Academic Project

- Developed an intelligent vector-search enabled chatbot trained on comprehensive VIT university dataset.
- Implemented advanced natural language processing for contextual understanding of student queries.
- Created a centralized communication platform with real-time event updates, FAQs, and interaction channels.
- Integrated multiple communication endpoints for students, clubs, and administrative departments.
- Utilized vector database techniques for efficient information retrieval and intelligent response generation.

RESEARCH

Image Captioning Using Deep Learning

July 2024

- Published in 2024 International Conference on Data Science and Network Security (ICDSNS)
- Developed an innovative deep learning model for automated image captioning using VGG-16 and encoder-decoder architecture
- Implemented advanced feature extraction and natural language processing techniques
- Achieved quantitative performance evaluation using BLEU-1 and BLEU-2 scoring metrics
- IEEE Xplore Digital Library Publication

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EDUCATION

Bachelor of Computer Science *CGPA: 8.42*

VIT University, Vellore, Tamil Nadu

Expected 2025

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Network Security, Cryptography

Intermediate *Score: 91%*

Chinamaya Vidyalaya, Bokaro Steel City, Jharkhand

2019 - 2021

OTHER SKILLS

Achievements

Software Jury panel at IEEE-EDS Hackathon,
Secured 3rd place in Yantra 2024 Hackathon, Indian Classical Flute Player