

# Jaswanth Pakalapati

📍 Vijayawada    ✉ jaswanthpakalapati@gmail.com    ☎ 7989564516    in jaswanthpakalapati    🌐 jaswanth27p

## Experience

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### Full Stack Developer (Contract)

Remote

Instinctive Studio

March 2024 – Present

- Developed and maintained engaging, user-friendly front-end interfaces for various websites, focusing on animations and 3D object integration to enhance user experience and visual appeal.
- Built a custom student portal for an online teaching company, centralizing resources for easy access by over 50+ daily users, significantly improving user engagement and resource accessibility.
- Led the development of MVPs for potential startup solutions, including an AI-powered LMS, speech-to-knowledge graph features, and a 3D real-time question-answering assistant, demonstrating innovative approaches to digital learning experiences.

## Technologies

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**Languages:** Java, Python, SQL, JavaScript

**Technologies:** React Js , Next Js , Tailwind css , Redux Toolkit , Spring Boot , Express Js , MySql , MongoDB , gsap , Three Js

## Projects

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### ConnectEd Student Portal

- Integrated data from various sources like Google Sheets and Airtable, ensuring real-time updates and making it seamlessly accessible to students, enhancing user experience and engagement.
- Implemented secure user authentication using JWT tokens, coupled with WhatsApp OTP verification for enhanced login security and streamlined access for 25-50 regular users.
- Tools Used: NextJs , google apis, airtable api , jwt

### 3d Tutor

- Integrated Deepgram API for accurate voice-to-text conversion, followed by using OpenAI API to generate intelligent responses, enabling seamless interactive communication between users and the virtual teacher.
- Developed a 3D classroom environment featuring a dynamic, animated teacher that responds in real-time based on user interactions, with facial animations synced to speech using visemes, and speech output generated via Microsoft Speech API for realistic vocal responses.
- Tools Used: NextJs ThreeJs Openai

### LMS

- Designed and implemented a multi-tenant architecture that supports multiple organizations with isolated data, providing scalability and flexibility for diverse users.
- Implemented AI-based video transcription and language translation features, enabling automatic translation of video audio into multiple Indian languages to enhance accessibility and learning for users across regions.
- Tools Used: NextJs

### Frontend Projects

[Ingenio](#)   [SIBBC](#)   [Instinctive Studio](#)   [The Lodestar](#)   [Crossroad bangalore](#)   [fanlytcs](#)

## Education

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### VIT-AP

Sept 2022 – May 2025

BTECH in Computer Science

- GPA: 8.57/10.0
- **Coursework:** Computer Science And Engineering ( AI & ML )