

AKHIL VARMA KUCHARLAPATI

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EDUCATION

Vignana Bharathi Institute of Technology

June 2026

B.Tech-Information Technology

CGPA: 7.99

Sri Chaitanya Junior College

June 2022

Intermediate-MPC

Percentage: 95.6

EXPERIENCE

The Virtual CTO | *React.js Developer Intern*

Aug 2025 – Sep 2025

RR Matrimony Admin Dashboard | *Next.js, Redux-Saga, TypeScript, REST APIs, Postman*

- Integrated **15+** RESTful APIs using Redux-Saga, replacing static data with dynamic content across key modules.
- Implemented full **CRUD** functionality for Pages, Blogs, and Admin Profile modules.
- Ensured application stability by identifying and resolving **10+** **critical** bugs related to API integration and state management.
- Implemented secure **login APIs** and session management to strengthen authentication workflows.
- Integrated advanced **filtering and search APIs**, improving data handling and retrieval efficiency.

Coding Studio() | *Programming Lead*

March 2024 – Present

- Contributed to the development of a faculty-facing web app for tracking and visualizing late student data.
- Implemented advanced **filtering and sorting** functionalities to enhance data accessibility and user experience.
- Led a team of developers, assigning tasks based on technical expertise and ensuring smooth project coordination.
- Represented the team in **IEEE Xtreme 18**, achieving a global rank of 3726.

PROJECTS

Echo-Box | *Next.js, TypeScript, MongoDB, Tailwind CSS, NextAuth, Zod, Google SDK*

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- Built a full-stack AI-powered messaging module with AI-driven message suggestions and scalable backend APIs.
- Implemented MongoDB **Aggregation Pipelines** for analytics, achieving a **2.3×** improvement in query performance and enabling real-time insights.
- Improved backend reliability by restructuring API routes with consistent error handling and Zod-based validation.
- Integrated **Google AI SDK** to provide smart message suggestions, enhancing user efficiency and engagement.
- Enhanced authentication reliability by **30%** using secure NextAuth flows, server-side validation, and token-based session management.

Prep-Advance | *ReactJS, NodeJS, ExpressJS, Socket.io, MaterialUI*

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- Built a full-stack placement platform with AI roadmaps, live coding, mock interviews, and resume builder.
- Integrated **Socket.IO** for real-time collaborative coding with simultaneous peer editing.
- Leveraged Google Gemini API to generate personalized preparation recommendations and automated interview feedback.
- Integrated **Clerk** for secure authentication and seamless user login management.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, HTML/CSS, JavaScript/TypeScript

Frameworks & Libraries: ReactJS, NextJS, NodeJS, ExpressJS, Bootstrap, TailwindCSS

Database & Tools: MongoDB, MySQL, Firebase, Git/GitHub, Postman, Docker

Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOPS), DBMS, DCCN

CERTIFICATES AND ACHIEVEMENTS

- Achieved an Elite Certification in "The Joy of Computing using Python" – **NPTEL**.
- Achieved an Elite Certification in "Database Management Systems" – **NPTEL**.
- Solved over **400+ DSA problems** across various platforms.
- Secured a **Global Rank of 7315** in LeetCode Weekly Contest 143 out of 27,473 participants.