

# Bhanu Prakash Pattem

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## Profile Summary

Computer Science student skilled in Full-Stack Development and Agentic AI Systems. SRIP 2025 Intern at IIT Gandhinagar, where I worked on puzzle algorithms and interactive web applications, and Coding Club Coordinator at JNTUA. Experienced in developing AI-driven systems and building multiple full-stack projects using modern frameworks and databases.

## Technical Skills

**Languages:** Python, JavaScript, Java (basic)  
**Full Stack:** React, Redux, Node.js, Express.js, REST API Integration, HTML, CSS, Bootstrap  
**AI Systems:** LangGraph, Autonomous Multiagent Systems, Prompt Engineering, CrewAI, RAG (basic)  
**Databases:** MongoDB, MySQL, SQLite  
**Computer Science Fundamentals:** Data Structures & Algorithms (Python)  
**Tools & Others:** Docker (basic), Postman, VS Code, Git

## Experience

**Summer Research Intern - IIT Gandhinagar** 05/2025 – 07/2025  
*Project: Product & Web Interface Design for Step Puzzles*

- Engineered 8+ interactive puzzle games with dynamic solving logic, reaching thousands of schools and educators across India and enhancing engagement in STEM outreach programs.
- Implemented backtracking and linear programming optimization methods to reducing computation time by 40%.
- Revamped the user interface using React and JavaScript, leading to a 20% increase in user engagement based on pre- and post-implementation usage data analysis.

**Coding Club Coordinator - JNTUA College of Engineering Anantapur** 2024 – 2025

- Spearheaded technical discussions on emerging technologies, fostering a deeper understanding of industry trends among 30+ club participants.
- Engineered code for 3 distinct small to medium-scale projects addressing real-world challenge, enhancing technical skills for 30+ members participating in coding club initiatives.

## Projects

### AI Voice Assistant for Windows

- Project Overview:** Designed a voice-controlled Windows assistant using LangGraph and Python, enabling users to open apps, toggle 7+ system settings, perform web searches, chrome mode (via Selenium) and integrate with Google Calendar.
- Enhanced with automation features:** Developed a voice-driven file manager (via Selenium) supporting 10+ file operations (create/delete/copy/paste) and navigation across drives/tabs.
- Technologies:** Python, LangGraph, LangChain-Google, Selenium, PyAutoGUI, gTTS, PyAudio, APIS, PyGame, Win32Clipboard, Shutil, Send2Trash, Google Auth, Nest-Asyncio and more.

**College Clubs – Student Club Management Platform** [Source Code](#) [Demo](#)

- Project Overview:** A responsive platform for managing student clubs and members with 4+ role-based dashboards for admins and coordinators. Features include event registrations (200+), donation tracking (100+ donations), library management, gallery, YouTube integration, and a centralized announcement system. Admins and coordinators can efficiently manage events, members, and resources, while students securely log in via their college email ID.
- Technologies:** HTML, CSS, JavaScript, React, Redux, Material UI, Node.js, Express.js, MongoDB, Cloudinary, Passport.js, Razorpay, Postman.

**Epic Essentials – Ecommerce Website of Gaming Products** [Source Code](#) [Demo](#)

- Project Overview:** Developed a platform supporting 100+ products and 50+ simultaneous users with cart, search/filter, and order tracking features. Integrated Stripe test payments for seamless order processing; planned admin dashboard for real-time inventory and sales tracking.
- Technologies:** HTML, CSS, JavaScript, React, React Redux, Material UI, Node.js, Express, MongoDB, Cloudinary, Passport, Postman, Stripe.

## Education

B.Tech (CSE)	JNTUA College of Engineering Anantapur	8.02/10 CGPA	2022 - Present
Inter (MPC)	Sri Chaitanya Junior College, Tirupati	949/1000 Marks	2020 - 2022
SSC	Sri Sai Bharathi High School, Vontimitta	10/10 GPA	2019 - 2020

## Certificates

- IBM RAG and Agentic AI Professional Certificate [Certificate Link](#)
- The Web Developer Bootcamp 2024 by Colt Steele - Udemy [Certificate Link](#)
- The Full Stack by Meta - Coursera [Certificate Link](#)
- Databases: Relational Databases and SQL by StanfordOnline - Edx [Certificate Link](#)