

Ritvik Anand

Reg. No.: 22BCE10121

Bachelor of Technology

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EDUCATION

•VIT Bhopal University, Bhopal	2022-Present
Bachelor of Technology in Computer Science and Engineering	CGPA: 8.46
•Modern Academy, Gaya	2020-2021
12th, Central Board of Secondary Education	79.2%
•DAV Public School, Gaya	2018-2019
10th, Central Board of Secondary Education	85%

PROJECTS

•assisT	Mar 2025
An end-to-end classroom management platform with automated assessment and personalized feedback, for students.	
– Developed responsive React interfaces for classroom, assignment, and feedback components, reducing navigation time by 40% compared to initial prototype.	
– Implemented PDF/DOCX document preview and annotation systems using React libraries, enabling seamless assessment workflow for 1000+ student submissions.	
– Built OCR-to-markdown rendering pipeline that properly handles text and diagrams from student submissions for accurate LLM-based evaluation.	
Technologies: React, FastAPI, PostgreSQL, Google Cloud Storage, GCP Compute, Gemini API, Mistral AI	
•ClipVault (Ongoing)	Jan 25-Present
Cross-platform bookmarking app with browser extension for saving links/text/video frames into organized lists.	
– Built a Chrome extension prototype with 1,200+ lines of vanilla JavaScript, supporting 50+ test users during beta.	
– Created a frame extraction tool for YouTube videos using TensorFlow.js, achieving 85% accuracy in testing.	
– Reduced client-side storage usage by 40% by migrating from localStorage to IndexedDB.	
Technologies: React, Python, FastAPI, ReactNative, JavaScript, Chrome Extensions API, TensorFlow.js, IndexedDB	
•Drop	Dec 2024
A social app for anonymous chatting using expiring QR codes, timed chat sessions, and ephemeral status updates.	
– Implemented WebSocket-based chat with <100ms latency for 500+ concurrent users during university testing phases.	
– Reduced video upload sizes by 65% using FFmpeg compression, enabling faster sharing on low-bandwidth networks.	
– Designed a custom QR expiration algorithm to auto-delete chats after a specified duration, improving privacy compliance.	
Technologies: React Native, Express.js, MongoDB, FFmpeg, WebSockets, QR Code Generator	

ACHIEVEMENTS

- Cleared Smart India Hackathon (SIH) college level twice (2023, 2024), specializing in privacy-focused app development.
- Led multiple teams of 5-8 members for college level project exhibitions and a EPICS project.

TECHNICAL SKILLS

Programming Languages: CPP, JavaScript, Python

Web Technologies : React, Next.js, React Native, Node.js, Express.js, FastAPI, Pydantic, uvicorn, Google Cloud Storage, HTML5, CSS3, Pug

Databases : MongoDB, PostgreSQL, Firebase, Redis

Cloud Platforms : AWS, GCP

DevOps Tools : Git, GitHub, Cloudflare, HuggingFace

UI/UX : Photoshop, Figma

ADDITIONALS

Relevant Coursework : Data Structures & Algorithms, Database Management Systems, Cloud Computing, Theory of Computation and Compiler Design, Operating Systems, Computer Networks

Areas of Interest : Generative AI, Web Development, UI & UX Design, Cybersecurity, DevOps, Deep Learning, Web Automation and Testing, Linux Systems

Languages : English (Fluent), Hindi (Native)

Soft Skills : Problem Solving, Analytical Thinking, Attention to Detail, Independent Work, Adaptability