

ANURAG TIWARI

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EDUCATION

VNIT NAGPUR

2022-2026

B.TECH In Electronics And Communication (Major)

8.17/10

Minor in Computer Science

7.5/10

SKILLS

Programming Languages : C++, JavaScript , Python**Frontend Technologies :** HTML, CSS, React.js**Backend Technologies :** Node.js, Express.js**Databases :** Mongo DB, Redis**Others :** Git, GitHub, Postman**Soft Skills :** Communication, Creativity, Team Work**Concepts/Coursework :** Oops, Supervised/Unsupervised Machine Learning, Neural Networks, Kafka, Computer Networks

API Gateway, Load Balancer, Consistent Hashing, Websockets, Basic Understanding of SOLID Principles

PROJECTS

CodeX Coding Platform | *MERN, Judge0, Monaco Editor, Web Sockets*

[\[Documentation\]](#)

- Architected a full-stack MERN coding platform with a Monaco editor and Judge0 code execution engine.
- Engineered secure RESTful APIs and OTP-based authentication using Redis, JWT, and Bcrypt.
- Pioneered a live battle mode using [Socket.IO](#), implementing a coin economy and weekly leaderboards to maximize user engagement.
- Integrated an AI chat assistant and built a robust admin panel for comprehensive platform management.

Crowd Anomaly Detection | *Python, Optical Flow Numpy, Matplotlib*

[\[Documentation\]](#)

- Developed a crowd behavior detection system using Farneback Optical Flow.
- Implemented frame-wise motion correlation to identify anomalies.
- Built a modular pipeline with OpenCV, NumPy, and Matplotlib.
- Generated labeled output video and correlation analysis graphs.

URL SHORTENER | *MERN, NanoID*

[\[Documentation\]](#)

- Developed a full-stack URL shortening application using MongoDB, Express.js, React.js, Node.js.
- Implemented unique short URLs generation using NanoID, enabling high performance and collision-free links.
- Designed a RESTful API for creating, retrieving, and redirecting URLs efficiently.
- Enabled users to view and visit previously generated links.

AI WEBSITE BUILDER | *Gemini, Netlify, MERN*

[\[Documentation\]](#)

- Built an AI-powered Website Builder to generate portfolio or custom websites.
- Integrated one-click live deployment feature for instant hosting.
- Enabled live code editing with real-time preview for seamless customization.
- Added functionality to download complete source code as a ZIP.
- Provided options to build portfolio websites or fully custom sites without starting from scratch.

CODING PROFILE

300+ DSA Problems in [GFG](#)

150+ Medium Problems

1000+ Coding Score

5★ SQL ([HackerRank](#))3★ Problem Solving ([HackerRank](#))

COURSE WORK AND GRADE

ECL-429 Communication/Computer Network

10/10

ECL-423 Image Analysis and Computer Vision

9/10

CSL-3XX Object Oriented Programming

9/10

CSL-312 Operating Systems

8/10

EXTRACURRICULARS

Head of Brand Marketing (Ecell VNIT, TEDxVNIT)

April 2024 - March 2025

- Overseeing and strategizing for Ecell VNIT, collaborated with cross-functional teams to deliver 10+ entrepreneurship events.
- Led and mentored a 19-member team of Brand Managers, driving cohesive marketing campaigns and maintaining brand consistency across all initiatives.

Literary Secretary (Boys Hostel)

February 2023 - May 2023

- Served as Literary Secretary in the hostel, promoting literary activities and engagement