ANKUSH NAYAK

Final Year Undergraduate
Electronics & Communication Engineering

Portfolio / *Leetcode* / *GFG*
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Academic Qualifications

Year	Degree/Board	Institute	CPI/%
2022 - 2026	B-Tech (ECE)	NIT Bhopal	8.33/10
2020 - 2021	XII (PCM)	SAINT S.R.S Hr. Sec. School	95.0/100

Work experience

IOT: Internet Of Things / **Industrial Training| Yhills Pvt. Ltd.**   *Jul'24 – Aug'24*

- Independently developed IoT projects using Arduino with sensors, relays, displays, and keypads for interactive hardware control.
- Implemented Wi-Fi/Ethernet connectivity and integrated cloud platforms for data logging, remote monitoring & trigger-based automation.

JPMC / **Virtual Internship**   *Jun'24 - Jun'24*

- Developed **financial analysis**, data modelling, and **client presentation skills**.
- Collaborated on strategic projects and gained insights into **risk management**.

Achievements

- **300+** [Leetcode + Geeks for Geeks + Codestudio]</> algorithmic problems solved
- **Gate ECE** | Rank Holder – **All India Rank 3430**
- Achieved **4th Position** twice in All INDIA Inter Nit Chess 2024 Jamshedpur & 2025 Silchar
- **Maffick** Event management team member / Selected students from the institute.

Key Projects

BGMI_TOURNS / ⍭ *MERN project with payment integration*   *Sep'24*

- A fully responsive web app using **Tailwind CSS**, **React.js**, **Node.js** and **MongoDB** to streamline the process of organizing and participating in BGMI Tournaments.
- Implemented **OTP-based user authentication**, **Login/Signup**, **integrated Razorpay for payments**, and **automated email service** for post-tournament registration notifications.

Sorting Algorithm Visualizer | ↗ *visualize sorting using different algorithms*   *Jul'24*

- A web app using **HTML**, **CSS** and **JavaScript** to learn and visualize how different **sorting algorithms** operate and sort the elements of the given array.
- It also provides insights into the **time complexity** of each sorting algorithm.

Parallel File Encryptor / ⍭ *Core C++ Project*   *Mar'25*

- Crafted parallel processor using C++ Multithreading handling 15+ concurrent operations with good success rate
- Implemented efficient encryption and decryption algorithms optimizing for parallel execution and memory usage

Technical Skills

- **Programming:** C++, Java, JavaScript, Python
- **CS Constructs:** Data Structures, Oops, Computer Networks, Operating Systems
- **Databases:** MySQL, MongoDB
- **Cloud Native:** Docker
- **Web Development:** React.js, Node.js, Express.js, EJS, Socket.IO, Leaflet.js, Tailwind CSS, Bootstrap
- **Machine Learning & Data Analysis:** NumPy, Pandas, Matplotlib
- **Tools & Software:** Git/GitHub, Render, Vercel, Linux.

Core Electronics Skills

- **Embedded Systems:** Arduino Uno, Microcontroller 8051.
- **IoT Technologies:** Sensors & Actuators, IoT Architecture, wireless module ESP8266.
- **Digital & Analog Electronics:** Logic Gates, Flip-Flops, Multiplexers, Op-Amp, Circuit Analysis.
- **Simulation & Design Tools:** MATLAB, Proteus.

Positions Of Responsibility

Core Member at Zenith (The programming club of MANIT) /   *Mar'24*

Fostering a collaborative coding environment to enhance skills across all student levels.

Chess (Sports Complex MANIT) — Captain & Coordinator /   *Jan'25*

Leading and organizing chess initiatives, fostering strategic thinking and representing MANIT in tournaments.