

Atul Kumar Singh

[LinkedIn](#) | [Github](#) | [Leetcode](#) | [Portfolio](#)

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WORK EXPERIENCE

C-DAC

Intern | Oct 7 – Nov 21, 2024

- Performed ethical hacking and penetration testing to identify and mitigate security vulnerabilities.
- Simulated real-world attacks using advanced tools, delivering actionable insights for enhanced security.
- Designed and executed testing plans to evaluate network, system, and application security.
- Partnered with teams to resolve vulnerabilities efficiently, improving overall defense mechanisms.

BHARAT ELECTRONICS LIMITED,GHAZIABAD

Intern | June 11 – Aug 8, 2024

- Engineered a QPSK modulation circuit to optimize signal transmission for high efficiency.
- Developed a high-precision sampler to ensure reliable communication in low SNR environments enhancing system performance under challenging conditions.

EDUCATION

National Institute of Technology, Arunachal Pradesh

2021-2025

B.Tech In Electronics And Communication

Itanagar,Arunachal Pradesh

- CGPA: 7.12

PROJECT

Video Chatting Web Application | [Link](#)

- Built a WebRTC-based application enabling real-time video and audio communication in web browsers.
- Tech Stack Used: HTML, CSS, JavaScript, Node.js, Express.js, Socket.IO, Docker(Containerization).

Task Manager Web Application | [Link](#)

- Built a full-stack application with React.js for the frontend and Node.js with Express.js for backend APIs.
- Implemented CRUD operations and integrated PostgreSQL for managing persistent task storage.
- Tech Stack Used: React.js, Node.js, Express.js, PostgreSQL, Tailwind CSS.

Portfolio Website with Chatbot Integration | [Link](#)

- Built a responsive portfolio website showcasing skills, experience, and projects, with sections for Home, About, Skills, Resume, and Contact.
- Integrated an AI-powered chatbot for interactive Q&A about resume details, skills, and projects
- Tech Stack Used: React.js, Tailwind CSS, custom API, Vercel

TECHNICAL-SKILLS

- Languages: C++, Java, HTML, CSS, JavaScript
- Frameworks: React.js, Express.js, Node.js, Tailwind CSS.
- Databases: MongoDB, MySQL
- Developer Tools: Git, GitHub, Visual Studio, IntelliJ, Eclipse IDE
- DevOps & Tools: Docker, MATLAB, LTspice
- Cloud & Platforms: AWS, Linux, Windows
- Soft Skills: Leadership, Teamwork, Time Management

ACHIEVEMENTS / CO-CURRICULAR ACTIVITIES

- NCC Cadet (B certificate holder)
- Coordinator, Technical Fest.