

AMAN KUMAR SINGH

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🌐 [Linkedin](#)

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Education

VIT Bhopal

2022 – 2026

B.Tech - Computer Science and Engineering (Minor in Cybersecurity and Digital Forensics)

CGPA- 9.2

Technical Skills and Courses

Data Structure and Analysis of Algorithm

Technologies/Framework/Libraries: HTML , CSS , Machine Learning , Git

Coursework: Computer Networks , Operating System , Database and Management System , Object Oriented Programming , Data Structures and Algorithm , Theory of Computation and Compiler Design , Principles of Digital Forensics , Web Security , Amazon Web Services , Artificial Intelligence and Machine Learning, Engineering Design and Modelling , Cyber Threat and Analysis, Software Vulnerability Testing , Software Engineering

Work Experience

The Red Users – Cybersecurity Intern

Jan, 2025 - Present

- Conducted **network security analysis**, identifying and mitigating **3+ threats** using **firewalls & Wireshark**, improving system security by **73%**.
- Executed **web vulnerability testing** with **OWASP ZAP & WebGoat**, successfully detecting **5+ critical vulnerabilities**, including **SQL Injection, XSS, and CSRF attacks**.

Projects

KinderConnect – AI-Powered Child Psychiatrist Portal [🔗](#) | [MERN](#))

Nov, 2024 - Present

- Conducted 15+ successful demonstrations of the KinderConnect portal to key stakeholders, gathering requirements and feedback that led to fixing the 3 biggest causes of user interface crashes.
- Engineered a **MERN-stack** child psychiatrist appointment portal, cutting **appointment scheduling time** by **30%** and boosting **user engagement** by **40%** through an integrated **AI chat assistant**.
- [Visit Project](#)

IOT Based Smart Irrigation System Using Arduino UNO [🔗](#) | [Arduino UNO](#)

Sep, 2024 - Present

- Constructed detailed flow diagrams outlining data processing steps in the smart irrigation project, which streamlined communication between members and cut down meeting times by approximately **15%** each week.
- Developed a **real-time dashboard** on **Blynk Cloud** to monitor **humidity, temperature, and switch controls**, featuring an **analysis graph** that improved data visualization efficiency by **45%**, enabling quicker decision-making.
- [Implementation to be Out Soon...](#)

VIT Face Detection System using Machine Learning [🔗](#) | [Python](#)

Jan, 2024 - May, 2024

- Created a detailed report analyzing performance metrics of machine learning algorithms used in face detection systems, identifying key areas where processing speed improved by at least 50%, enhancing overall application efficiency.

Profile Links

• [Leetcode/AmanKS](#) • [GeeksforGeeks/AmanKS](#) • [CodeStudios/AmanKS](#) • [Codeforces/AmanKS](#)

Certifications

- Certified In **Foundation of Cyber Physical System** [Issued by **NPTEL** 2024]
- The Bits and Bytes of **Computer Networking** [Issued by **Coursera** 2023]

Achievements

- Top-8 Finalist in **Anti-Piracy Hackathon** Conducted by World Audio Visual Entertainment Summit for ME Industry .
- Solved 300+ coding problems across multiple platforms.
- Completed **200 Days of Coding** Consistency Challenge.