

AMAN KUMAR SINGH

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EDUCATION

VIT Bhopal

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

2022 – 2026

CGPA- 9.2

COURSEWORK

Data Structure and Analysis of Algorithm

Methodologies & Concepts: System Architecture, Git, AWS Security Services, Risk Assessment, Incident Response

Technologies/Framework/Practices: React, Node.js, SDLC, Security, Application Resiliency , Vulnerability Management

Coursework: Object-Oriented Programming, Computer Networks, Database Management Systems, Operating Systems, Web Security , Forensic Chemistry, Digital Forensics , Cyber Threat and Analysis , Software Vulnerability Testing , Ethical Hacking

WORK EXPERIENCE

Nexus Info - Web Developer Intern [Coimbatore,India]

Oct, 2024 - Feb 2025

- Developed a scalable e-commerce web application using React.js, Node.js, and WordPress integration, with RESTful APIs for seamless payment and product management.
- Implemented AI-powered customer chatbots and Docker-based containerization, deployed the solution on AWS with real-time analytics dashboards leveraging Elasticsearch and interactive data visualization through D3.js..

PROJECTS

AMSTOCK – Cloud-Native Inventory Management Platform with AWS Architecture |

Apr, 2025 - Jun, 2025

- Designed a cloud-native inventory management system using AWS, Next.js, Node.js, and PostgreSQL, with complete separation of frontend and backend services.
- Deployed backend via AWS EC2 with PM2, and provisioned a fault-tolerant Multi-AZ RDS PostgreSQL instance for high availability.
- Integrated AWS Amplify for frontend CI/CD and managed static image uploads through AWS S3 with signed URLs for secure access.

CodeMindAI: Micro SaaS Platform for AI Code Generation and Developer Assistance |

Feb, 2025 - Apr, 2025

- Developed CodeMind AI, an open-source micro SaaS AI coding companion utilizing Google Generative AI with 30% accuracy.
- Built scalable cloud platform with Next.js, React, and Convex, supporting real-time code preview for 1000+ users.
- Integrated secure authentication and payment systems using Google OAuth and PayPal API for subscription management
- Enhanced developer workflow efficiency by 30% with live interactive coding via Sandpack and Tailwind CSS UI optimization.

SKILLS AND CERTIFICATIONS

Languages, Frameworks & Tools: C++, HTML5, React JS, CSS, Version Control, GitHub , Kali Linux , John the Ripper , Metasploit , Autopsy , Maltego , Wireshark

Certifications:

- Certified **Cybersecurity Analyst**
- Certified **(C100DBA) Database Administrator Associate**

Issued by **IBM**, 2025

Issued by **MongoDB University**, 2025

ACHIEVEMENTS

- Top-5 Finalist in **Anti-Piracy Hackathon** Organized by World Audio Visual Entertainment Summit for ME Industry and Conducted by Ministry of Maharashtra.
- Solved over **450+ algorithmic challenges** on platforms like LeetCode and GeeksforGeeks, enhancing problem-solving and DSA skills.

CO-CURRICULAR ACTIVITIES

Team Lead at Mozilla Firefox Club, VIT Bhopal

- Organized 5+ hackathons and coding events, increasing participation from 100 to 300+ students.

Member of Discipline Committee at VIT Bhopal

- Ensured smooth conduct of campus activities by maintaining order during events and enforcing institutional code of conduct.

Technical Core Member at BitsbyBits Club, VIT Bhopal

- Organized technical workshops, coding bootcamps enhancing programming skills and community engagement.