

# AMAN KUMAR SINGH

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Linkedin Profile

Github

## 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

**Technologies/Framework/Practices:** React, Node.js, SDLC, Security, Application Resiliency , MongoDB , PostgreSQL

**Coursework:** Object-Oriented Programming, Computer Networks, Database Management Systems, Operating Systems, Web Security , Software Engineering, Engineering Design and Modelling , Theory of Computation and Design

## 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

- Created 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, Next.js, CSS, Tailwind CSS, JavaScript, Node.js, MongoDB, Convex, Version Control, GitHub, Docker, ShadCN UI, Sandpack, Nodemailer, D3.js, AWS

### 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** Initiated by World Audio Visual Entertainment Summit for MSME Industry and Conducted by Ministry of Maharashtra.
- Sharpened data structures and algorithms proficiency by completing over 450 coding challenges on LeetCode and GeeksforGeeks, improving code efficiency and reduced runtime.

## CO-CURRICULAR ACTIVITIES

### Joint Secretary - BitsbyBits Club VIT Bhopal

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

### Team Lead at Mozilla Firefox Club, VIT Bhopal

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

### Student Council - Discipline Committee at VIT Bhopal

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