

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

Omdena - Chapter Lead [Berlin , Germany (Remote)]

May , 2023

- Designed and implemented data pipelines for feature extraction, normalization, and sequence generation to enhance multi-step prediction accuracy by 15%.
- Led the development of a three-layer LSTM neural network in Python and TensorFlow to forecast 14-day temperature and precipitation trends using a 100,000+ row Kaggle weather dataset.

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.