

AMAN KUMAR SINGH

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Profile

Innovative **Software Engineer** specializing in **AWS Cloud Solutions**, **Full-Stack Development**, and **AI Systems**, with hands-on experience in **SaaS Platforms**, **Multimodal AI**, and **Serverless Architectures**.

Education

VIT Bhopal

2022 – 2026

B.Tech - Computer Science and Engineering (Majors 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 - Feb, 2025

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

Projects

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

Nov, 2024 - Jan,2025

- Conducted multiple successful demonstrations of the KinderConnect portal to key stakeholders, gathering requirements and feedback that improved interface stability.
- Engineered a **MERN-stack** child psychiatrist appointment portal with integrated AI chat assistant, significantly improving scheduling efficiency and user engagement.
- [Visit Project](#)

Scalable Inventory Management System Using AWS [🔗](#) | AWS, Next.js, RDS

Mar, 2025 - Present

- Designed cloud architecture with VPC networking, public/private subnets, and security groups for secure and available infrastructure
- Implemented relational database schema for comprehensive tracking of products, users, and transactions
- Integrated AWS Amplify with Next.js frontend to establish automated deployment workflows

Multimodal AI SaaS Platform [🔗](#) | Amazon SageMaker, Next.js 15, Tailwind CSS

Apr , 2025 - Present

- Developing image/text classification and object detection models using SageMaker
- Architecting multi-tenant SaaS infrastructure with scalable EC2 configuration
- [Core AI Orchestration Implementation In Progress...](#)

Certifications

- Certified **Cybersecurity Analyst** [Issued by **IBM** 2025]
- Certified MERN Stack Developer [Issued by **Ethnus** 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.
- Completed **365/365 Days of Coding** Consistency Challenge, solving 500+ algorithmic problems across platforms like LeetCode, GeeksforGeeks, and HackerRank while mastering data structures and optimization techniques.