Ayush Monga

(+91) 9755544336 | ayushmonga854@gmail.com | www.linkedin.com/in/ayush-monga | https://github.com/AyushMonga

TECHNICAL SKILLS

C/C++, Python, Java, MySQL, HTML, CSS, JavaScript, PHP, React.js, Kali Linux, Git, Node.js, MongoDB, Express.js, PowerBI.

WORK EXPERIENCE

Information Security Intern   **Dec 2024 – Feb 2025**
Maulana Azad National Institute of Technology (MANIT), Bhopal

- Deployed and configured 20+ tools across 7 cybersecurity domains under the ISEA project, including static analysis, reverse engineering, network forensics, and exploit development.
- Conducted 15+ technical experiments using tools such as Ghidra, Radare2, Autopsy, Recuva, SonarQube, Bandit, Wireshark, and TruffleHog to analyze malware, scan vulnerabilities, and recover forensic artifacts.
- Delivered a practical workshop session covering secure coding practices and digital forensics workflows, engaging 50+ students and faculty through hands-on tool demonstrations in a virtual lab setup.

PROJECTS

CodeMate | *React.js, Node.js, Express.js, MongoDB, Gemini API, NodeMailer*   *May 2025*
- Designed and implemented a robust full-stack AI-driven ticketing platform enabling seamless query resolution for coding-related issues.
- Architected secure role-based access control system allowing Admins to manage workflows, Users to raise tickets, and Moderators to handle assignments.
- Leveraged Gemini API to process natural language coding queries, automatically generate contextual explanations, and identify skill-tagged requirements.
- Built dynamic moderator assignment logic based on skill match, availability, and past performance metrics for efficient query handling.

TrackMyItem | *React.js, Node.js, Express.js, MongoDB, Cloudinary API, Google Maps API*   *March 2025*
- Developed a scalable, full-stack lost and found portal tailored for university campuses to streamline item recovery.
- Implemented image upload functionality using Cloudinary API, allowing users to post clear visual references for lost or found items.
- Integrated Google Maps API to capture and display precise geolocation coordinates for better item tracing and contextual awareness.
- Designed an intuitive UI/UX with categorized item listings, search filters, and mobile responsiveness using React.

Malware Analysis | *Kali Linux, Ghidra, Flare-VM, Radare2, Oracle VirtualBox*   *October 2024*
- Reverse-engineered a Linux-based ransomware sample using Ghidra on Kali Linux, inspecting 80+ functions to trace encryption logic and file handling routines.
- Monitored syscall patterns and network activity to identify C2 communication, ransom note delivery, and file system modifications.
- Constructed annotated control flow graphs and disassembly mappings to trace execution flow of cryptographic functions.
- Deobfuscated embedded strings and extracted persistence mechanisms using Radare2 and Flare-VM within a hardened analysis environment.

EXTRA-CURRICULAR

- Vice-President at VITB Mozilla Firefox Club. Organized 5+ tech events at university.
- Certified Cyber Security Analyst – IBM   .
- Winner of Project-Expo at VITB Industrial Conclave for best project under Cyber Physical System and Top 5 overall projects against 25+ teams.
- Selected for Student Internship Program (SIP) 2024 with Bhopal Police Commissionerate.
- Sports Lead (Cricket) and represented University Cricket Team 5+ times in inter-college tournaments.

EDUCATION

VIT Bhopal University	2022-2026
Bachelor of Technology (B.Tech.) in CSE (Specialization in Cyber Security and Digital Forensics)	*CGPA: 8.87/10*
Delhi Public School Bhopal	2022
12th Standard: CBSE Board	*91%*
Delhi Public School Bhopal	2020
10th Standard: CBSE Board	*91.2%*