Ayush Patel

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EDUCATION

VIT Bhopal University   Bhopal, India
B-Tech Computer Science and Engineering (Specialization in Cyber Security and Digital Forensics)   Oct 2022 - Present
- Major GPA: 9.27/10

TECHNICAL SKILLS

- **Cybersecurity Tools & Concepts** : OSINT Framework, Vulnerability Assessment & Management, Wireshark, Nessus, IDS/IPS, Firewalls, Threat Modeling, Risk Assessment
- **Programming & Scripting** : C++, Python, JavaScript, Bash
- **Programming & Scripting** : Secure API Development, JWT Authentication, Access Control, Patch Management, Vulnerability Mitigation
- **Operating Systems & Platforms** : Linux, SQL
- **Other** : Git, React, Node.js, Supabase, Tailwind, Docker

WORK EXPERIENCE

Coders Boutique Private Limited.   India
Full Stack Developer Intern   Oct 2024 - Feb 2025
- Implemented secure authentication and conducted vulnerability checks on APIs to reduce attack surface by 30%.
- Integrated frontend and backend systems, improved API response time by 40%, and enhanced user experience with Framer Motion for smooth animations.

GSSoC 2024   India
Open Source Developer   May 2024 - Aug 2024
- Merged 5 pull requests in GSSoC, achieving a leaderboard rank below 900 out of 20,000 participants.
- Received a badge for sustained commitment and ongoing contributions to open-source projects during GSSoC.

PROJECT EXPERIENCE

Secure Gym Membership Management Platform (2024)
- Designed and deployed a secure membership management system for a local gym, safeguarding records of 250+ members and transactions.
- Automated status updates and invoice generation with integrity checks.
- Implemented authentication and secure data handling to protect sensitive personal and financial information.

Pictoshield – Image-Based Authentication System (2024)
- Developed a secure authentication framework where users authenticate by arranging images in a specific format.
- Built the frontend with React.js and integrated a server-side image validation engine.
- Designed pattern-based login resistant to brute-force, phishing, and shoulder-surfing attacks.

EXTRA CURRICULARS

Linux Club Co-Lead Technical Team   Mar 2023 - Present
- Led the development and secure deployment of the club's website, ensuring safe user data handling.
- Organized Linux security and open-source security tools workshops.

Hackathon Harbinger by RBI
- Designed 'Note Mitr,' an advanced device utilizing computer vision, machine learning, and OCR to enable accurate identification of Indian banknotes, improving accessibility for over 50 million visually impaired individuals.

Accomplished the 100 Days Code Challenge
- Solved 380+ challenges on LeetCode and GeeksforGeeks, showcasing advanced algorithmic skills.

CERTIFICATIONS

- **IBM** Cybersecurity Analyst Professional Certificate
- **Cisco** – Cybersecurity Essentials | Introduction to Cybersecurity | Packet Tracer
- **Vityarthi** – Fundamentals of AI/ML | Introduction to Programming Using Python