

# Ansh Tripathi

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## Education

Vellore Institute of Technology  
Bachelor of Technology Computer Science Engineering | CGPA: 7.81

Bhopal, Madhya Pradesh  
2022-2026

## Work Experience

### Times Internet

#### Application Security Intern

Oct 24 - Dec 24

- Conducted application security testing (SAST & DAST) on 15+ enterprise modules using Checkmarx and Burp Suite, identifying and mitigating 30+ vulnerabilities, including SQL Injection and authentication flaws.
- Secured Java (JDBC) codebases by implementing 100% parameterized queries and robust input validation, reducing injection risk by over 80%.
- Utilized Hawki for real-time code security analysis, assessing API security, authentication mechanisms, and OWASP Top 10 vulnerabilities.
- Conducted hands-on penetration testing labs on Vuln Hub, exploiting intentionally vulnerable machines to simulate real-world attack scenarios, gaining expertise in:
  - Privilege escalation (Linux & Windows)
  - Enumeration techniques using Nmap, Go buster, and Interpolating misconfigured services and weak credentials
  - Gaining root access via known CVEs (Common Vulnerabilities and Exposures)
  - Assisted in triaging false positives and prioritizing security risks based on severity, impact, and exploitability.
  - Collaborated with security engineers to analyze and remediate vulnerabilities, ensuring compliance with secure coding standards and best practices.

## Projects

### AutoSyntax - SaaS Code Editor

[LIVE](#) [GITHUB](#)

*Technologies Used - Next.js 15, TypeScript, Convex, Clerk, Tailwind CSS, Lemon Squeezy*

- Developed a full-stack SaaS-based online code editor with support for 10+ programming languages, enabling users to write, run, and share code snippets efficiently.
  - Enabled dynamic theming with 5 VSCode-inspired themes and custom font settings, improving user personalization and accessibility.
  - Supported webhook integration and smart output rendering (error/success states), improving runtime feedback for over 300 test cases.
  - Implemented Clerk authentication and integrated Pro-tier monetization using Lemon Squeezy, resulting in a functional paywall system for gated IDE features.
- Role: Full Stack Developer

### Illuvium - Stunning 3D Gaming Website

[LIVE](#) [GITHUB](#)

*Technologies Used: React.js, Tailwind CSS, Spline 3D, Sketchfab, Vite*

- Built a modern, interactive 3D gaming landing page that supports 60 FPS animations using React.js and Tailwind CSS, simulating the look and feel of a professional game studio website.
  - Integrated immersive 3D models and animations via Spline and Sketchfab, enhancing visual engagement and creating a dynamic user experience.
  - Designed a fully responsive layout with smooth transitions and animated elements, optimized for both desktop and mobile platforms.
  - Implemented modular and scalable component architecture, enabling seamless future updates and improved code maintainability.
- Role: Frontend Developer

### Kidney CT Scan Classification using CNN

[GITHUB](#)

*Technologies Used: Python, TensorFlow/Keras, OpenCV, Scikit-learn*

- Built a deep learning model using CNN to classify kidney CT scan images into 4 categories: Cyst, Tumor, Stone, and Normal.
  - Processed over 10,000 grayscale CT images using OpenCV and TensorFlow's image pipeline, achieving over 96% validation accuracy.
  - Visualized performance using Matplotlib with confusion matrix, loss/accuracy curves, and classification reports. Reduced overfitting by 15% using Dropout and Batch Normalization.
  - Enhanced the model's generalization and performance through regularization (Dropout, Batch Normalization) and evaluation using Scikit-learn.
- Role: Full Stack / ML Developer

## Technical Skills

Programming: C++, Python

Frontend: JavaScript, React, Next.js

Backend: Node.js, Express

Developer Tools: GitHub, Docker, Vercel, Firebase, AWS

## Additional Information

Interests/Hobbies: Decent Gamer, Editing & Chess player

Certification Skills: AWS Solutions Architect Foundations, MERN Full Stack, Google Cloud & Generative AI, Web Development (Coursera - Johns Hopkins University)

Languages: English, Hindi