

ADITYA RAVAL

BCA Cybersecurity Student | Ethical Hacking • Networking • Python • OSINT

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SUMMARY

BCA Cybersecurity student with hands-on experience building cybersecurity and networking projects in Python, including packet analysis, port scanning, and browser-based cryptography using the Web Crypto API. Combines foundational knowledge of ethical hacking, OSINT, and network security with practical web development experience designing, deploying, and maintaining live applications.

PROJECTS

VaultText — Browser-Based Text Encryption Tool | *JavaScript, Web Crypto API, AES-256-GCM, PBKDF2-SHA-256, Vercel*

- Built a browser-based text encryption tool implementing AES-256-GCM authenticated encryption and PBKDF2-SHA-256 password-based key derivation via the Web Crypto API.
- Designed a fully client-side architecture with no backend or database, keeping all cryptographic operations local to the browser.
- Deployed as a live web application on Vercel.

Network Traffic Analyzer | *Python, Scapy, Packet Analysis, TCP/IP*

- Developed a Python-based network traffic analyzer using Scapy to capture and inspect live packets.
- Implemented protocol identification to distinguish TCP, UDP, and ICMP traffic for real-time analysis.

TCP Port Scanner | *Python, Socket Programming, TCP/IP*

- Built a TCP port scanner using Python socket programming to detect open ports and active network services.
- Supported scanning by both IP address and domain name for network reconnaissance.

Personal Portfolio Website | *HTML5, CSS3, JavaScript, Git, Vercel*

- Designed and developed a responsive personal portfolio site to showcase projects and certifications.
- Managed deployment, hosting, and domain configuration using GitHub and Vercel.

EXPERIENCE

Founder & Web Developer — adityaraval.in

Jun 2026 – Present

Vadodara, India

- Designed and developed portfolio websites for students and professionals using responsive frontend practices.
- Managed website deployment, hosting, and domain configuration independently.
- Handled project planning, development, testing, and deployment end-to-end as an independent developer.

SKILLS

Cybersecurity: Cybersecurity Fundamentals, Ethical Hacking Fundamentals, OSINT, Web Security, Cryptography

Networking: Networking Fundamentals, TCP/IP, Packet Analysis, Nmap

Security Tools: Kali Linux, Nmap, Scapy

Programming: Python, JavaScript

Web: HTML5, CSS3, Responsive Web Design, Web Crypto API

Tools & Platforms: Git, GitHub, Vercel

CERTIFICATIONS

- Deloitte Australia Cyber Job Simulation — Forage | May 2026
- Mastercard Cybersecurity Virtual Experience Program — Forage | Jun 2026
- Commonwealth Bank Introduction to Cybersecurity — Forage | Jun 2026
- Artificial Intelligence for Cybersecurity — LinkedIn Learning | Jul 2026
- Cybersecurity Foundations — LinkedIn Learning | Aug 2026

EDUCATION

Sigma University — BCA in Cyber Security

Jul 2025 – Present

Vadodara, India

LANGUAGES

English — Advanced | Hindi — Proficient | Gujarati — Proficient