Devanshu Bansode

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Profile

Third-year B.E Computer Science & Engineering (IoT & Cybersecurity) student with hands-on industry experience in web, mobile, and API penetration testing across real-world client applications. Experienced in identifying and validating vulnerabilities such as SQL Injection (SQLi), Cross-Site Scripting (XSS), IDOR, authentication flaws, and business logic issues using tools including Burp Suite, SQLmap, OWASP ZAP, MobSF, and Postman.
Worked within structured VAPT engagements covering reconnaissance, exploitation, vulnerability validation, CVSS-based reporting, and remediation verification. Contributed to secure infrastructure projects, including VPN-based access solutions, while building security-focused applications and machine learning–based network anomaly detection systems.
Actively participate in national-level CTF competitions and develop web security challenges for cybersecurity events. Passionate about offensive security, application security, and continuous hands-on learning, with practical experience across VAPT, secure development, and cybersecurity community initiatives.

Skills

Penetration Testing: Web Application Penetration Testing, API Security Testing, Vulnerability Assessment & Penetration Testing (VAPT), OWASP Top 10, Reconnaissance & Enumeration, Manual Security Testing, Vulnerability Validation, CVSS-based Reporting

Security Tools: Burp Suite, Postman, MobSF, SQLmap, OWASP ZAP, Nmap, Metasploit Framework, Wireshark, Aircrack-ng, Gobuster, Twingate

Programming & Scripting: Python, Java, C, Flask, Bash Scripting, JavaScript (Security Testing)

Networking & Operating Systems: TCP/IP, DNS, HTTP/HTTPS, Linux (Kali & Ubuntu), Linux Command Line, Basic Routing & Switching

Databases & Storage: MySQL, PostgreSQL, SQL, Database Security, Encryption Fundamentals

Other Tools / Platforms: Git & GitHub, TryHackMe, PortSwigger Web Security Academy, Arduino IDE (ESP32)

Projects

AnomalyX: Network Intrusion Detection & Analyst Dashboard 02/2026 – 05/2026
- Built a **SOC-style Network Intrusion Detection Dashboard** using **Python, Flask, Machine Learning, and the NSL-KDD dataset** to classify network traffic and assist analyst-driven investigations.
- Developed a **Random Forest–based detection engine** supporting attack categorization (DoS, Probe, R2L, U2R), MITRE ATT&CK technique mapping, severity-based alerting, and protocol/service behavior analysis.
- Implemented analyst-focused features including **incident summaries, false positive/false negative analysis, confusion matrix visualization, and interactive security dashboards** for network traffic monitoring.

Wi-Patrol – Wi-Fi Intrusion Detection System 07/2025 – 10/2025
- Led a **4-member team** to develop an **ESP32 + Python-based Wi-Fi intrusion detection system** for identifying rogue wireless devices through real-time scanning.
- Developed a **Tkinter-based monitoring interface** with MySQL logging for alert generation and investigation of suspicious network activity.

CICADA 3301 – CTF Challenge Development 02/2026 – 02/2026
- Designed and developed **5 web security challenges** covering SQL Injection, XSS, IDOR, authentication bypass, and business logic vulnerabilities.
- Simulated realistic attack scenarios to evaluate participants' exploitation techniques, analytical reasoning, and web application security knowledge.

X'Ploitathon 2025 CTF 09/2025 – 10/2025
- Developed **9+ web security challenges** for an intercollegiate Capture The Flag competition organized by the **OWASP Student Chapter, SIES GST** and **PODS Technology Solutions**.
- Created challenges covering SQL Injection, XSS, authentication bypass, business logic vulnerabilities, and Dark Web–themed investigative scenarios.

Encrypter 09/2025 – 10/2025
- Led a **4-member team** to develop a **Flask-based encryption and data transformation platform** with authentication, secure file uploads, and MySQL-backed operation history.
- Designed modular workflows for encryption, encoding, and secure data processing through a web interface.

Password Vault - Encrypted Credential Manager 01/2025 – 02/2025
- Developed a **Python-based password manager** featuring AES encryption, secure authentication, password generation, and an intuitive Tkinter desktop interface.
- Implemented encrypted local credential storage to enhance confidentiality and secure password management.

Experience

Cybersecurity Intern 12/2025 – Present
Kalpinox Private Limited Nerul, Navi Mumbai
- Assisted in **security assessments and vulnerability analysis** for internal and client applications.
- Contributed to the design and implementation of a **VPN-based secure access solution using Twingate**, including setup, CLI configuration, and access control management.
- Investigated attack vectors, analyzed security findings, and documented technical observations to support internal security reviews.

Cybersecurity Engineer — Intern 12/2025 – 06/2026
COE Security LLC Remote
- Performed **web, mobile, and API penetration testing** on real-world client applications using Burp Suite, Postman, MobSF, SQLmap, and OWASP ZAP.

- Identified, validated, and documented vulnerabilities including **SQL Injection, Cross-Site Scripting (XSS), IDOR, authentication flaws, and business logic vulnerabilities**.
- Executed structured **VAPT engagements** covering reconnaissance, exploitation, vulnerability validation, CVSS-based reporting, and remediation verification.

Cybersecurity Trainee / Intern 02/2026 – 07/2026
Secured Bharat Group Kharghar, Navi Mumbai
- Completed structured training aligned with the **CompTIA Security+ (SY0-701)** curriculum, covering Windows security, threat landscape, malware analysis, and social engineering.
- Performed hands-on labs focused on attack vectors, Indicators of Compromise (IoCs), threat actor behavior, and defensive security concepts.
- Built foundational knowledge in **system hardening, Windows security, and security operations**.

Cybersecurity Coordinator 09/2025 – 04/2026
Google Developer Groups On Campus, SIESGST Nerul, Navi Mumbai
- Organized cybersecurity workshops, awareness sessions, and hands-on Capture The Flag (CTF) events for students.
- Delivered sessions on web application security, practical attack demonstrations, and CTF fundamentals.
- Coordinated technical execution and participant support during cybersecurity competitions.

Cybersecurity Team Member & CTF Developer 02/2026 – 05/2026
OWASP Student Chapter, SIESGST Nerul, Navi Mumbai
- Designed and developed web security challenges for an intercollegiate Capture The Flag competition.
- Conducted cybersecurity workshops covering web application vulnerabilities and practical attack techniques.
- Assisted in deployment, technical coordination, and execution of the competition.

Education

Bachelor of Engineering (B.E.) in Computer Science & Engineering (IoT & Cybersecurity) 2024 – Present
SIES Graduate School of Technology, Nerul (Autonomous - Mumbai University) Nerul, Navi Mumbai

Higher Secondary Certificate (HSC) – Science 2023 – 2024
New Horizon Scholars School, Airoli – CBSE Board Airoli, Navi Mumbai

Secondary School Certificate (SSC) 2021 – 2022
New Horizon Scholars School, Airoli - CBSE Board Airoli, Navi Mumbai

Certifications & Professional Training

Bug Bounty & Web Security Testing – zSecurity (Udemy): Completed hands-on training in web application penetration testing, bug bounty methodologies, Burp Suite, and OWASP Top 10 vulnerabilities including SQLi, XSS, SSRF, IDOR, CSRF, XXE, command injection, and directory traversal.

Learn Ethical Hacking From Scratch – zSecurity (Udemy): Built a practical foundation in ethical hacking covering network reconnaissance, exploitation, wireless security, privilege escalation, and penetration testing using Metasploit, SQLmap, Aircrack-ng, Wireshark, and Kali Linux.

Ethical Hacking (EH CE SDP) – SIES GST: Covered networking fundamentals, web application security, TryHackMe labs, and introductory web testing using Burp Suite.

Detect & Defend – Secured Bharat: Completed practical cybersecurity training focused on digital forensics, threat identification, incident analysis, and evidence handling.

C Programming – SIES GST: Completed foundational programming training covering problem-solving, algorithms, and structured programming concepts.

Achievements / Extracurriculars

Top 25 Finalist (Team CODEXA) – SAMVED Smart Governance Hackathon 2026 (Top 25 out of 509 teams) for developing Sanrakshak Sentinel Hub, an IoT-based safety solution for sanitation workers. 04/2026

Winner (Rank 1) – SwapITLab CTF 2025. 11/2025

Secured 1st place in Capture the Flag (CTF) at CSI Cybersecurity Workshop, SIES GST 08/2025

Secured a Top-30 rank (29/297) in the Detect & Defend national-level cybersecurity challenge by Secured Bharat. 11/2025

Secured Top-10% rank (138/1527) in the MetaCTF Flash CTF (November 2025). 11/2025

Improved ranking from 250 → 16 in CyberXplore Bootcamp by GhostNett. 08/2025

Participated in RAIT-CTF 2026, a national-level multi-stage cybersecurity competition 01/2026

Participated in Enigma CTF 2026, organized by Elan & nVision, IIT Hyderabad 01/2026

Participated in Techgyanathon CTF 2026, an offline national-level cybersecurity competition 03/2026

Participated in NEXUS CTF 2026 (VJTI), involving cryptography, system analysis, and exploitation challenges 02/2026