

AMIT MISHRA

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PROFESSIONAL SUMMARY

Cybersecurity & IoT engineering student with equal strength in software development and applied security. Builds full-stack web applications in Python, Java, JavaScript, and SQL using Flask, Django, and MySQL, with REST API design, Docker, and Git/GitHub in the workflow. On the security side, has hands-on experience with red/blue team labs (Kali Linux, Wazuh SIEM, MITRE ATT&CK), vulnerability analysis, and national-level CTF competitions, applying that mindset to authentication flows, input validation, and injection-safe database design. Seeking an entry-level Software Engineer, Full-Stack Developer, or Cybersecurity internship/role.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, C, HTML5, CSS3

Frameworks & Web Tech: Flask, Django, REST APIs, DOM Manipulation & Event Handling, Responsive Web Design, CRUD Architecture

Developer Tools & Platforms: Git, GitHub, Docker, MySQL, Postman, Linux, VS Code

Security Tools: Kali Linux, Wazuh (SIEM), MITRE ATT&CK, SQLMap, Hydra

Core CS Concepts: Data Structures & Algorithms, Database Design, API Authentication, Input Validation & Sanitization, Debugging, Version Control, System Design Fundamentals

TECHNICAL PROJECTS — SOFTWARE ENGINEERING & CYBERSECURITY

Adversarial Simulation & Detection Lab (Red/Blue Team) | Kali Linux, Windows 10, Wazuh, MITRE ATT&CK

- Built an isolated red team/blue team lab pairing a Kali Linux attack platform with a Windows 10 target and a Wazuh SIEM, by configuring log forwarding, endpoint monitoring, and alerting rules.
- Simulated adversary behavior mapped to MITRE ATT&CK tactics and techniques from Kali Linux, then investigated the resulting security alerts, by correlating Windows event logs with Wazuh telemetry to reconstruct attack timelines.
- Validated SOC-style detection coverage, by analyzing telemetry, tuning alert rules, and documenting indicators of compromise (IOCs) for each simulated technique.

Django Blog Web Application | Python, Django, SQLite, HTML5, CSS3

- Built a full-featured blog application with user registration, login, and profile management, by implementing Django's built-in authentication system and custom user models.
- Delivered complete CRUD functionality for blog posts (create, read, update, delete) restricted to authenticated authors, by designing Django models, class-based views, and forms with server-side validation.
- Structured a maintainable MVC-style architecture, by organizing reusable Django templates, URL routing, and a normalized relational database schema via the Django ORM.

AI Assistant & Automated Event Alerting Service | Python, Flask, REST APIs, MySQL, SMTP, HTML5/CSS3

- Engineered a Python-Flask backend service handling 100+ daily automated event alerts, reducing manual monitoring effort by building token-authenticated REST API endpoints with request sanitization and exception handling.
- Reduced response latency for user queries by ~40%, by integrating third-party chat, weather, and file-handling APIs with voice and text parsing pipelines.
- Eliminated malformed-request failures across all API endpoints, by implementing structured input validation and automated SMTP-based email notification handlers.

Hospital Record Management System | Java, MySQL, HTML5, CSS3, REST/CRUD Architecture

- Delivered a full-stack record management system supporting role-based access for multiple user types, by architecting structured user access controls in Java and MySQL.
- Reduced SQL injection risk to zero known vulnerabilities in testing, by engineering parameterized SQL queries and normalized backend schemas to protect database endpoints.
- Maintained 100% audit log integrity across record updates, by implementing consistent CRUD operations with server-side validation on every write path.

Interactive Task Management Web App | JavaScript, HTML5, CSS3, Web APIs

- Shipped a responsive CRUD web application (add, update, delete, mark complete), by implementing DOM manipulation, event-driven UI logic, and client-side input validation in vanilla JavaScript.

COMPETITIVE PROGRAMMING & CTFs

- Ranked #23 of 280 competitors at HackX CTF (National Level, Mar 2026), solving 124 algorithmic and system-debugging challenges (25,250 points) under strict time constraints.
- Placed #34 nationwide at UNI6CTF 1.0 (Apr 2026, 3,330 points) and completed REDFOX CTF 2026 and HackZero '26 (OWASP VIT Bhopal), rapidly analyzing live application environments under time-boxed conditions.

EDUCATION

Bachelor of Technology (B.Tech), Cybersecurity and IoT — Jawahar Education Society's A.C. Patil College of Engineering Expected 2027

HSC — Sanpada College of Commerce & Technology (2023) | **SSC** — Navi Mumbai Vidyalaya & Jr. College (2021)