

# Sanjog Gautam

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 @SanjogGautam

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## TECHNICAL SUMMARY

Cyber security Learner and Frontend Developer transitioning into offensive security. Currently executing a 78-day intensive study streak on the PortSwigger Web Security Academy. Specialized in identifying and documenting server-side vulnerabilities, including Insecure Deserialization and Broken Access Control. Proficient in building component-based web interfaces using React.



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## TECHNICAL SKILLS

- **Security Research:** Insecure Deserialization (PHP/Java), IDOR, Vertical/Horizontal Privilege Escalation, Logic Bypass, XSS, SQLI, NOSQLI, SSRF, CSRF.
- **Frontend Development:** React.js, JavaScript (ES6+), HTML5, CSS3 (Tailwind, Bootstrap).
- **Networking:** TCP/IP stack, HTTP/S analysis, DNS, Layer 1-3 Hardware Troubleshooting.
- **Tooling:** Burp Suite Professional, Metasploit, Nmap, Hackvertor, Linux CLI.
- **Languages:** C, C++, PHP, Python (Exploit context).

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## SECURITY RESEARCH & LABS

**Technical Research (PortSwigger Web Security Academy)** | Oct 2025 – Present

- **Advanced Deserialization:** Exploited PHP magic methods (`__wakeup`, `__destruct`) to achieve arbitrary object injection and unauthorized file deletion.
- **Logic Exploitation:** Analyzed and bypassed multi-step authentication workflows and business logic flaws in simulated e-commerce environments.
- **Traffic Analysis:** Utilized Wireshark and Burp Suite to intercept raw HTTP traffic, identifying serialized object signatures and identifying transport-level failures (502/504 CDN errors).

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## DEVELOPMENT & PROJECTS

**PROJECTS & COMPETITIONS** Swastha (Hospital Management System) | Hackathon Project | 2024 \* **Frontend Development:** Architected the user interface using React.js, focusing on component modularity and efficient state management for patient and staff records.

- **UX/UI Design:** Developed responsive dashboards using Tailwind CSS to ensure accessibility across various device types.
- **Security Observation:** Evaluated frontend data handling to prevent common client-side vulnerabilities such as DOM-based XSS

Link to the github is : <https://github.com/Hyouka72/SmartSwasthya-Khukuri->

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## EDUCATION

**Madan Bhandari Memorial College** | *Class of 2023*

- **NEB XII (Science/Computer Science) | GPA: 3.58/4.00**
- **Fifth Semester (Bachelors in Computer Science and Information Technology)**

**Pushpasadan Boarding School** | *Class of 2021*

- **SEE | GPA: 3.85/4.00**