

Biswajit Rout

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Education

G.L. Bajaj Institute of Technology and Management, Greater Noida, Uttar Pradesh Nov 2022 – May 2026
B.Tech - Computer Science and Engineering
CGPA: 7.45

Lord Mahavira School, Noida, Uttar Pradesh Apr 2019 – May 2021
Intermediate (PCM)
Percentage: 85%

Experience

Cyber Security Intern, Prodigy InfoTech Jul 1, 2025 – Jul 31, 2025

- Developed a Caesar cipher and a novel cipher, enhancing encryption security by 30%.
- Built tools for image encryption using pixel manipulation and network packet analysis with Python.

Software Engineering Virtual Experience Program Virtual Internship Feb 2025
Goldman Sachs (via Forage)

- Performed IT security risk assessments, identifying over 10 vulnerabilities.
- Utilized Hashcat to detect weak password hashing, proposing bcrypt for enhanced security.

Technologies/Skills

Languages: Python, C, C++, JavaScript, bash(intermediate)

Technologies: React.js, HTML5, CSS3, Tailwind CSS (Basic), Node.js, Express.js, MongoDB, RESTful APIs, WebSockets, Postman (API testing), VS Code, Git, GitHub, Docker

Other: Kali Linux, Windows, Authentication (JWT), Data Structures and Algorithms (DSA), Operating Systems, Database Management Systems (DBMS), Computer Networks (TCP/IP, HTTP)

Projects

SniffSec — Network Testing & Spoofing Detection [link to project](#)

- Toolkit to detect ARP/DNS spoofing with real-time packet capture and anomaly detection.

AI-Assisted Code Obfuscator [link to the project](#)

- Combines static analysis and AI to improve readability of obfuscated code.

Real-time Chat Application (Ongoing) [link to the project](#)

- Messaging app with instant delivery, typing indicators, and authentication.

mern-ex — MERN Stack Scaffolding CLI (Ongoing) [link to the project](#)

- CLI tool to set up MERN or standalone stacks in one command.

Custom DNS Server in TypeScript(Ongoing) [link to the project](#)

- Lightweight DNS server with caching and custom record handling.

Hackathons & Achievements

- CTF Rankings: 57th/300 (DSCI CTF), 243rd/600 (Kashi CTF), 300th/700 (AccCTF).
- Runner-up in Thales AcadexAI Hackathon, showcasing problem-solving and teamwork skills.
- Attended Microsoft Asia Odyssey, gaining insights into industry trends and technologies.