

Rishi Mandal

Bhubaneswar, Odisha | rishimandal99138@gmail.com | +91 7008616510
Linkedin | GitHub | Portfolio

Professional Summary

Final year B.Tech (CSE – Cybersecurity) student with strong analytical skills, proficient in Python, cloud/serverless architectures, network forensics, and intrusion detection. Passionate about applying technical expertise and academic projects to solve real-world security challenges.

Key Skills

- **Programming:** Python, C, C++, Java
- **Cybersecurity:** Digital Forensics, Intrusion Detection, Malware Analysis, Network Forensics
- **Cloud/Tools:** AWS (Lambda, S3, DynamoDB, API Gateway), ServiceNow, Git, Scapy, Npcap, Regex, Socket Programming
- **Soft Skills:** Communication, Teamwork, Problem-Solving, Adaptability

Projects

- **Network Intrusion Detection System (NIDS)**
GitHub Repo
 - Built a real-time, multi-layer NIDS capable of detecting port scans, SQL injection, XSS, and flooding attacks.
 - Integrated IP geolocation and SOC-style dashboard for live threat visualization.
 - Validated detection on 10k+ malicious traffic samples with high accuracy across multiple protocols.
- **Network Packet Sniffer**
GitHub Repo
 - Captures and analyzes 500k+ packets (TCP, UDP, ICMP) with real-time filtering and deep inspection.
 - Supports structured export to CSV/JSON, improving forensic analysis and log correlation by 30%.
 - Benchmarked at sub-50ms latency for packet capture using Npcap and Scapy.
- **AWS Serverless Portfolio**
GitHub Repo
 - Developed a fully serverless portfolio using S3 + CloudFront, API Gateway + Lambda backend, and DynamoDB storage.
 - Achieved global low-latency viewing (<200 ms), with cost optimized to ~\$1/month and 99.9% uptime.
 - Implemented CI/CD pipeline for automated deployments, reducing update cycle time by 40%.

Education

B.Tech in Computer Science & Engineering (Cybersecurity) Siksha 'O' Anusandhan University, Bhubaneswar CGPA: 7.7	2022 – 2026
CHSE – Stewart Science College (12th) Percentage: 66.8%	2022
ICSE – Cambridge School (10th) Percentage: 90.7%	2020

Certifications

- ServiceNow System Administration (ongoing)
- ISRO: Geo-data Sharing and Cyber Security
- Cybersecurity Foundations (LinkedIn Learning)