



Anindya Sankar Roy

SENIOR ANALYST
(OFFENSIVE SECURITY)

Details

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Links

[Linkedin Profile](#)
[Github](#)

Qualification and Certifications

M.Tech
(Telecommunication Engineering)

OSCP
OSWP
PNPT
eCPPT
PJMT
eJPT
CCNA
CEH

Skills

Highly responsible and reliable

Ability to Learn Quickly

Highly Organized

Profile

I have extensive experience in conducting comprehensive security assessments of web applications, APIs, and mobile applications to identify and exploit potential security weaknesses. My expertise includes a thorough understanding of the OWASP Top 10 vulnerabilities, which allows me to effectively identify and mitigate these common web application security risks. I hold multiple security certifications, including the OSCP, OSWP, PNPT, eCPPT, CEH, and CCNA, which further validate my skills and knowledge in the field of cybersecurity.

In addition to web application security assessments, I possess expertise in assessing the security of IoT devices and systems, including firmware penetration testing. This involves analyzing the firmware of IoT devices to identify vulnerabilities and potential attack vectors. My experience and knowledge in this area make me well-equipped to handle complex IoT security assessments.

Furthermore, I have in-depth knowledge of assessing network security to identify misconfigurations, vulnerabilities, and other threats that could be exploited by malicious actors. Through my expertise and experience, I am able to provide clients with a comprehensive security assessment and effective strategies for enhancing their security posture.

My approach to penetration testing is designed to simulate real-world attacks and provide actionable recommendations to improve security defenses. As an Offensive Security Professional, I stay up-to-date with the latest industry tools and techniques to stay ahead of emerging threats. Additionally, my exceptional communication and interpersonal skills enable me to communicate complex technical concepts to both technical and non-technical stakeholders, making me an ideal candidate for any security assessment project.

Employment History

Senior Offensive Security Analyst at Lowes Services India Pvt Ltd, Bengaluru

SEPTEMBER 2021 — PRESENT

1. Conduct comprehensive security assessments of web applications, APIs, networks, mobile applications, and IoT systems
2. Identify vulnerabilities in web applications and APIs and provide recommendations for remediation
3. Perform mobile application security assessments and evaluate the security of mobile applications on the Android platform
4. Assess network security and identify potential misconfigurations and vulnerabilities that could be exploited by attackers
5. Assess the security of IoT devices and systems and identify potential vulnerabilities in communication channels and protocols
6. Develop effective strategies to improve overall security posture
7. Analyze application security and identify potential vulnerabilities and weaknesses that could be exploited by attackers

Decision Making

Excellent
Communication Skills

Penetration Testing

Firmware Analysis

OWASP top 10

Hobbies

Jiu Jitsu (competitive
Athlete), Scuba Diving,
Music

Senior Information Security Analyst at Globals ITES Pvt Ltd, Bangalore

JUNE 2019 — JULY 2021

1. Built and led a small team and have successfully achieve the requirements and goals on time.
2. Presented at the highest level in the Government.
3. Study and Analysis of Firmware from various devices for both Linux and RTOS.
4. Manual and automated Extraction of Firmware.
5. Files-system Analysis of the firmware.
6. User mode and full system emulation of Firmware.
7. Reverse Engineering and binary Analysis.
8. Application security and vulnerability analysis.
9. Binary Analysis and reverse engineering
10. Building Firmware using various tool-chains like Open-WRT, Buildroot.
11. Cross-compilation of binaries.

Research and Development Engineer at Toshniwal Enterprises Controls Ltd, Kolkata

JULY 2015 — JULY 2018

The scope of my work involves developing, testing, and configuring 3GPP compliant Radio Access Network (RAN) products. Over time, I have developed expertise in various areas, including:

1. Conducting software and hardware testing of micro-BTS.
2. Designing and configuring an 8-router network spread over 50Km in ONGC pilot testing, connecting it through LTE point-to-multi-point links, running VOIP phones with Cisco CUCM, ONGC applications, and video chat.
3. Building and configuring SDR-based 2G open-source BTS and integrating it with PBX.
4. Setting up a real-time GSM network for Micro-BTS, including the setup of BSC, OMC, Performance Manager, and backhaul in Arunachal Pradesh. I also performed RF power tests and call tests in the local MSC with local MSISDN.
5. Configuring VSAT and microwave radio systems.
6. Capturing packets and analyzing them in Wireshark.
7. Conducting RF and functional testing of Micro-BTS as per 3GPP specifications in GSM band.
8. Using pocket TEMS to analyze GSM network parameters.
9. Setting up gateway soft switches based on Dell Poweredge R420 & R200 series servers using Linux OS.
10. Configuring VSAT and microwave radio modems for backhaul.
11. Setting up a wireless mesh network using open-source routing software and inexpensive hardware, including turning indoor routers into high-value, high-range outdoor routers and conducting testing.

Through my work, I have gained valuable experience in the

development, testing, and configuration of RAN products, as well as network design and configuration, wireless mesh networks, and packet analysis. My ability to execute complex technical tasks in a timely and efficient manner has been instrumental in the successful completion of numerous projects.

Education

M.Tech, RCCIIT, Kolkata

AUGUST 2013 — JUNE 2015

Telecommunication Engineering

B.Tech, Greater Kolkata College of Engineering and Management, Kolkata

JULY 2008 — JULY 2012

Electronics and Communication Engineering

Publication

Study of Fisheye Routing Protocol in NS3 and its Comparative Analysis with AODV, DSDV and OLSR

Journal publication link -

http://www.ijarse.com/images/fullpdf/1480581725_1358.pdf

Conference publication Link-

<http://data.conferenceworld.in/PGMCOE/P238-250.pdf>

Certifications

OSCP – Offensive Security Certified Professional

OSWP – Offensive Security Wireless Professional

PNPT – Practical Network Penetration Tester

eCPPT V2 – eLearnSecurity Certified Professional Penetration Tester

PJMT – Practical Junior Mobile Tester

eJPT - eLearnSecurity Junior Penetration Tester

CEH – Certified Ethical Hacker

CCNA – Cisco Certified Network Associate