Pinak Dasgupta

E-MAIL | **+44 7587772332** | **LINKEDIN**

PROFILE

Former professional in an IT company working with automation testing framework development. Looking forward for a career in Cyber Security. Gaining knowledge and pursuing experience and expertise in the field.

KEY SKILLS

Kali Linux and tools (e.g: Metasploit, Hydra, etc.)
C/C++
JAVA
Python
Bash
HTML,CSS and Javascript
Networking and Network security

Languages: English (first language), Bengali (fluent), Hindi (fluent)

EDUCATION

Degree title MSc Cyber Security   **City, University of London**   September 2024 – September 2025

- Key modules: Cryptography, Information Security fundamentals, Network Security, Security Auditing and Certification, Digital Forensics, Cyber Crime and Sociotechnical Risk, Principles of Data Science.

Degree title B.Tech Information Technology   **Academy of Technology**   CGPA-9.14   2019 – 2023

- Key modules: Cryptography and Network Security, Computer networks, Object Oriented Programming in JAVA, Data structures and algorithms.

A-levels(CBSE)   Kalyani Central Model School, Kalyani   2017 – 2019

- English (77), Mathematics (71), Physics (89), Computer Science(74)

GCSEs(ICSE)   Julien Day School, Kalyani   2006 – 2017

- English (76), Mathematics (87), Science (85), Computer Applications(88)

PROJECTS

IMSII Catcher   2020 – 2021
- Topic / aim: A hardware device with software component to catch IMSII and intercept calls
- What you did / your role: Coding the framework of the catcher
- Outcomes: A device that can intercept calls, potentially can be used for security of the state

BIP 32 HD Wallet (10)   2022 – 2023
- Topic / aim: A hardware wallet allowing the creation of a wallet specific on the system hardware
- What you did / your role: Coding the framework of the wallet
- Outcomes: A wallet would be created on the hardware

Tool for malware analysis (Dissertation)(10)   2024 – 2025
- Topic / aim: Development of a tool to measure the evolution of malware over time.
- What you did / your role: Designed a system and basis of a tool which measures evolution of malware that will be given with a dataset.
- Outcomes: A tool that measures the growth of malware.

Network file analysis (8)   2024 – 2025
- Topic / aim: Analysis of a PCAP file to find anomalies.
- What you did / your role: Analysis of a PCAP file to find anomalies or possible intrusions in the system.
- Outcomes: I distinguished the problems or threats to the network system that was provided.

Cryptographic analysis of a file (7)   2024 – 2025
- Topic / aim: A file was present in a network given which we had to discover and cryptographically analyse.
- What you did / your role: Certain penetration testing of a network to find a file and cryptographic analysis of the file.
- Outcomes: The secret kept in the file with manual cryptanalysis.

Audit analysis of Juiceshop website (7)   2024 – 2025
- Topic / aim: Penetration testing of the Juiceshop site and identifying problems with the file in reference to a predetermined audit file.
- What you did / your role: Penetration testing and identifying problems with the site.
- Outcomes: Proper identification of problems with the website.

Forensic analysis of a deleted file system(7)   2024 – 2025
- Topic / aim: Proper forensic analysis of a filesystem in tsurugi linux.
- What you did / your role: Proper mounting of the image file provided and forensic analysis of the file system using autopsy.
- Outcomes: Proper forensic analysis and documentation of the file systems

Data science project (7)   2024 – 2025
- Topic / aim: Analysis of a certain topic of choice (my choice being study on prime age of football players).
- What you did / your role: Analysis of prime age and the effect on performance of a player in the game.
- Outcomes: A detailed report of the analysis of the effect of prime age on performance of a player.

WORK EXPERIENCE

Cognizant Technology Solutions, Bangalore   Intern   February 2023 – August 2023

- Java, applied to create applications
- Spring and Spring Boot framework to create dynamic web applications
- Selenium Framework applied by creating frameworks for UI automation
- Leadership qualities, Lead of the project cohort

Cognizant Technology Solutions, Chennai ,Kolkata. PAT   September 2023 - July 2024

- Java
- REST API
- Rest Assured, to create an automated API testing framework
- Team work qualities and ethics developed by working in a team

CO-CURRICULAR ACTIVITIES and INTERESTS

Active interest in football and MMA with some prior training undertaken in MMA. I have also taken music classes most of my life and love playing the guitar.