ARKA GHOSH

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EDUCATION

Digital University Kerala (Formerly IIITM-K) M.Sc. Computer Science with specialization in Cybersecurity	2022 - 2024
Asutosh College, University of Calcutta B.Sc. Computer Science	2019 - 2022 8.713 CGPA
Kalyani Public School Higher Secondary Education CBSE	2017 - 2019 91%
St. Claret School Secondary Education ICSE	2007 - 2017 91%

SUBJECTS LEARNED

Network Security, Data Structures and Algorithms, Cryptography, Cyber Security and Digital Forensics, Cyber Analytics, Security Auditing, Operating System, Computational Intelligence, Discrete Mathematics, Digital Image Processing, Database Management System.

ACHIEVEMENTS AND CERTIFICATIONS

Smart India Hackathon Internals	2023
· First Runner-up in SIH 2023 internals organized in DUK.	
CTF 1.0	2022
· First Runner-up Organised by KSAAC https://ksaac.duk.ac.in/event_past.php	
Entrepreneurship Cell IIT Kharagpur Penetration Testing Winter Camp	2021
\cdot Winter Camp training program on Penetration Testing in association with E-Cell IIT KGP	
Cybersecurity and Ethical Hacking Course	2021
\cdot Cyber Security and Ethical Hacking for Beginners and Advanced from GUVI Geek.	
Guinness Book Of World Record	2021
\cdot Participated in the World Record Winning event AI-for-India organized by GUVI Geek and AIG	CTE.
IIT Madras Certified Python Course	2021
\cdot Completed an in detailed course on python programming under distance learning by IIT Madra	s.
Inter School Band Competition	2017

PROJECTS AND INTERNSHIPS

Internship

Auxi-Aura

· Research Intern -George Mason University(July 2023-August 2023), Novel research on topic related to Network Defence under the guidance of Dr. Massimiliano Albanese

· Second Runner Up in the Auxi Aura 2017 inter-school band competition.

- · Penetration Tester Trainee -Techgyaan Technologies (December 2021), Performed thorough penetration testing and documentation on Mr.Robots Vulnerable machine as my winter training project.
- · Technical Content Writer for DataFlair(July 2021-September 2021), where I researched different topics on java and wrote articles on them.

Technical Project:

- · Created an OWASP Juice Shop and found 50+ vulnerabilities using Kali Linux, Burp suite, etc.
- · Created a user-friendly web application using Flask that uses an ensemble learning method and helps detect if a given email/message is spam or ham.(https://ensemblespamdetector.onrender.com/)
- · Created a website using wordpress, elementor.(https://arkag30.github.io/MyProjects/)

Technical Writings:

- · I write articles related to cybersecurity online. https://arkag30.medium.com/
- · https://www.researchgate.net/profile/Arka-Ghosh-13

PUBLICATIONS AND CONFERENCES

Ensemble Learning And its Application in Spam Detection

ICCECE

International Conference on Computer, Electrical & Communication Engineering

2023

· Ensemble learning is employed to enhance email classification by considering distinct features of spam mails. Four diverse models, SVM, MNB, RF, and DT, are used for max voting. After evaluating various combinations, the optimal result is achieved by combining SVM, MNB, and DT.

https://ieeexplore.ieee.org/document/10085378

ONGOING PROJECTS

Research Projects

- · A novel technique to detect attacks with the help of attack models
- · Development of a smart security solution using Software Defined Networks (SDN).

SKILLS

Technical Skills

· C, C++, Python, Java, HTML, CSS, Flask, Php, JavaScript, WordPress, GIT, Kali Linux, MySQL, Vulnerability Assessment and Penetration Testing, Ethical Hacking, Machine Learning

Other Skills and Hobbies

· Guitar, Ukulele, Harmonica, Painting, Abacus(Level 8)