Suman Garai

tech aficionado · maverick · gamer

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Profiles

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Summary

Possessing a fervent passion for Cybersecurity and decentralized technologies, a solid foundation in both fields is established, through active engagement in CTFs, research publications, and portfolio-related activities. The focus is on expanding expertise in Cybersecurity, particularly in its convergence with Blockchain and Artificial Intelligence.

With a comprehensive understanding of Governance, Risk, and Compliance (GRC) and Blue Teaming, the zeal for solving problems propels my engagement with challenges. This is accomplished through diligent research and perseverance, when troubleshooting IT-related issues that emerge in everyday life.

Foundationally strong in several scripting languages and GitHub. Known for meticulous attention to detail and precision, with a consistently collaborative approach to every task.

Aspiring to specialize as an Incident Responder or evolve into a Security Auditor, the objective is to proactively pinpoint and alleviate threats and risks, both prior to and following their manifestation. Maintaining a steadfast dedication to continual professional development within the industry, ensuring that expertise and comprehension remain in sync with technological advancements.

Experience

Cyber Sapiens United LLP   2023-02-20 to 2023-08-17
Cyber Security Intern   Remote
🔗 Website

As part of my daily routine, I have been given diverse responsibilities that involve:

- Proficient in testing website functionality, design, and usability to ensure optimal performance.
- Skilled in conducting in-depth research on diverse subjects and tools.
- Experienced in delivering engaging workshops and presentations on various topics.
- Adept at creating informative and high-quality content across multiple domains.
- Strong ability to manage multiple responsibilities efficiently, meeting tight deadlines with exceptional results.

Education

KiiT Deemed-to-be-University, School of Computer Applications, Bhubaneshwar   2023-08-16 to 2025-05-31
Masters of Sciences
Computer Science
8.27 CGPA
🔗 Website

Jain Deemed-to-be-University, School of CS & IT, Jayanagar   2020-07-01 to 2023-05-31
Bachelors of Computer Applications
Information Security & Mobile Applications
8.1 CGPA
🔗 Website

Hem Sheela Model School, Durgapur   2018-04-01 to 2023-03-21
AISSCE (CBSE)
Commerce
B1
🔗 Website

Hem Sheela Model School, Durgapur   2006-04-01 to 2018-03-30
AISSE (CBSE)
Fundamentals
A2
🔗 Website

Languages

English	Hindi	Bengali
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Skills

Information Security
Beginner

nmap, Maltego, Nessus, Metasploit, Burp Suite, OSINT Framework, Wireshark, etc.

IT Governance & Risk Management
Beginner

ISO 27000, COBIT 5, RISK & VAL IT, ISO 31000, NIST 800, PCIDSS, HIPAA

Technologies
Beginner

Python, C, C++, SQL, Linux, Hyperledger (Composer), Core IT Skills, Bourne Again SHell, Rust

Networking
Beginner

TCP/IP Model, OSI Model, IPv4 Subnetting, Protocols, Cisco Packet Tracer, Core Netwoking Skills, etc.

Digital Forensics
Beginner

SysInternals, Autopsy, Volatility Framework, Helix3, FTK Imager, Data Recovery, Email Forensics, Steganography, etc.

Web Developement
Beginner

HTML 5, CSS 3, Canva Websites , Github Pages, Typescript

Miscellaneous
Beginner

VAPT, Cyber Threat Hunting (CTH), Purple Teaming, Drawing, Web Application Security

Soft Skills

Communication, Adaptablity, Conflict Resolution, Creativity, Time Management, Problem Solving, Collaboration, Critical Analysis, Attention-to-detail, Teamwork

Publications

Exploring the Landscape of Password Managers for Individual Users Through Innovative Solution   April 2024
Springer Nature
🔗 DOI

The study aims to identify the best factors for creating the most secure password management system in today's world, providing insights on designing a secure and user-friendly password generation, storage, and retrieval system.

Emerging Trends in Cybersecurity: A Holistic View on Current Threats, Assessing Solutions, and Pioneering New Frontiers   April 2024
Blockchain in Healthcare Today (BHTY)
🔗 DOI

This research proposes a cybersecurity framework, evaluated against existing defenses, to navigate and mitigate the complexities of the ever-evolving digital threat landscape.

Certifications

Security+ (Plus) SY0-701   Preparing
CompTIA
🔗 Google Cybersecurity Badge

It focuses on core cybersecurity principles, including risk management, cryptography, threat detection, secure network architecture, compliance, identity management, incident response, and security operations.

Cisco Certified Network Associate (CCNA v7) Course   2024-06-06
Cisco NetAcad
🔗 Badges

A foundational certification covering essential networking concepts like IP connectivity and network access. It prepares individuals for network administration by providing practical skills and theoretical knowledge.

Certified in Cybersecurity (CC)   2023-01-06
(ISC)2
🔗 Badge

(ISC)2 Certified in Cybersecurity program provides professionals with globally recognized skills and knowledge to manage cybersecurity programs, covering topics such as risk management, incident response, and governance for entry-level positions.

Product Management Professional Certificate   November 2024
NASBA; IIBA; PMI; AHA; Linkedin Learning
🔗 Certificate

The Product Management Professional Certificate, provides foundational knowledge in product management, covering topics such as product development stages, strategy setting, and roadmap creation.

Projects

Portfolio Activity   July 2022 to Present
Different CyberSec Related Activity
🔗 Website

I built a strong cybersecurity portfolio through Forage and Security Team Blue activities, the Google Cybersecurity Professional Certification, and hands-on experience from my bachelor's in information security.

blue teaming, risk assessment, sql, linux, network analysis, documentation

EVM Bootcamp Q4 2024   October 2024 to December 2024
Conducted by Encode Club
🔗 Github Repository

We created this repository to showcase our projects and assignments, where my contributions focused on completing the weekly tasks and developing test cases for the messenger application.

evm, solidity, hardhat, typescript

Solana Rust Bootcamp Q4 2024   November 2024 - December 2024
Conducted by Encode Club
🔗 Github Repository

We developed this repository to showcase our Token Escrow project, where my contribution focused on developing the withdrawal function, including coding the library and SDK, as well as writing test cases.

solana-cli, rust, node, typescript, anchor

Decentralized Supply Chain Web Application   2022-12-15 to 2023-03-18
This Project is a part of Jain University
Final Semester Activity.
🔗 Github Repository

This project intends on providing a working model of augmenting blockchain technology into supply chain with the aim of providing a much more efficient and a reliable system.

hyperledger, composer, javascript

Acheivements

Certificate of Presentation - 2nd ICRDSTEM   March 2023
Uttunga & School of CS & IT, Jain University
🔗 Certificates Awarded

ICRDSTEM-2023, our 2nd International Conference, provides a global platform for academics and professionals in Science, Technology, Engineering, and Management to exchange insights and discuss advancements.

Certificate of Participation - Pentathon   April 2024
NCIIPC & AICTE
🔗 Certificate

NCIIPC in collaboration with AICTE had conducted India's first national-level VAPT exercise, engaging technical colleges and universities in a real-world-inspired challenge to develop a skilled pool of ethical hackers and pen testers for securing critical information infrastructure.

Volunteering

ISC2 Foundation   05-06-2024 to Present
Exam Developer   Remote
🔗 Badge

I volunteer as a cybersecurity SME, drafting and reviewing exam questions to ensure rigorous, relevant content, supporting future professionals in their certification journey and contributing to the field's development.

Uttunga - The Student Research Forum   2020-11-15 - 2023-01-18
Tech Team Member   Jain Deemed-to-be-University
🔗 Membership Certificate

As a member of the team, my primary responsibility was to draft questions and provide support during events such as hackathons, working primarily behind the scenes.

CSIRT.global   October 2024 to Present
Research Volunteer   Remote
🔗 Website

Conducting security assessments of web applications, identifying and reporting vulnerabilities to help organizations strengthen their security posture and protect against cyber threats.

National Service Scheme (NSS)   2022-07-15 - 2023-04-18
Documentation Team Member   Jain Deemed-to-be-University
🔗 Website

I was working with the team, responsible for documenting events with written records and photos, maintaining official records throughout the year for reference and future planning.

References

Dr. Taskeen Zaidi
Subject Teacher & Project Guide; Associate Professor, Jain University (School of CS & IT)

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Dr. Sanjeev Kumar Mandal
Final Year Project Guide & Research Guide; Assistant Professor, Jain University (School of CS & IT)

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