# 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

Cyber Security Intern

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

Computer Science 8.27 CGPA

Website

2023-08-16 to 2025-05-31

Masters of Sciences

School of CS & IT, Jayanagar Information Security & Mobile

Applications 8.1 CGPA Website

Hem Sheela Model School, Durgapur

Commerce

Website

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

Bengali

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Jain Deemed-to-be-University,

Fundamentals A2 Website

2006-04-01 to 2018-03-30

AISSE (CBSE)

2020-07-01 to 2023-05-31

Bachelors of Computer Applications

2023-02-20 to 2023-08-17

Remote

#### Languages

**English** 

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# Information Security

Beginner

Network Scanning, Data Mapping, Vulnerablity Scanning, Exploit Framework, Web Security, Intel Gathering, Packet Analysis

### Technologies

Beginner

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

#### IT Governance & Risk Management

Beginner

ISO 27000, COBIT 5, RISK & VAL IT, ISO 31000, NIST 800, PCIDSS, HIPAA, IAM, AAA, Controls & Policies

Hindi

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# Cryptography

Beginner

PKI, Key Exchange, X.509 Digital Certificate, Ciphers, ECC, Block, Stream, Symmetric, Asymmetric, ZKP

# **Digital Forensics**

Beginner

Data Recovery, Steganography, Memory & Email Forensics, Diagonstics, Incident Response, Malware Analysis

#### Networking Beginner

TCP/IP & OSI Model, Firewalls, HTTPS/TLS, SSL, DNS, UDP Protocols,

IPv4 Subnetting, Signals

#### Soft Skills

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

## Web Developement

Beginner

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

#### **Publications**

# Exploring the Landscape of Password Managers for Individual Users Through Innovative Solution

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 April 2024 Frontiers

Blockchain in Healthcare Today (BHTY)

⊘ DOI

April 2024

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

Security+ (Plus) SY0-701 CompTIA

Google Cybersecurity Badge

A vendor-neutral, foundational cybersecurity certification that validates essential skills across multiple domains, valued by IT security professionals and often required for cybersecurity roles.

Product Management Professional Certificate NASBA; IIBA; PMI; AHA; Linkedin Learning

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

Preparing Cisco CyberOps (CBROPS v1) Course

Cisco NetAcad Badge

This trains and validates SOC analysts' skills in security monitoring, host and network analysis, incident response, and security tools through hands-on labs.

Google Cloud Career 2023-02-15 Practitioner

Google Developer Student Club -FET JU

Certificate

November to December 2024

March 2023

Remote

05-06-2024 to Present

This Program is an initiative that provides learners with practical skills in cloud computing through hands-on experience with Google Cloud Platform (GCP) modules, labs, and exercises

Certified in Cybersecurity<sup>™</sup>

2023-01-06

October to December 2024

2022-12-15 to 2023-03-18

April 2024

Badge

The program provides professionals with globally recognized cybersecurity skills, covering risk management, incident response, and governance for entry-level rolės positions.

Projects

Portfolio Activity

Certificate

Different Cyber Sec Related Activity 

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.

November 2024

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

Solana Bootcamp Q4 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

July 2022 to Present EVM Bootcamp Q4 2024

Conducted by Encode Club

2025-01-15

Documentation

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

Supply Chain Web dApplication

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 Uttunga & School of CS & IT, Jain University

Certificates

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

NCIIPC & AICTE

Certificate

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

Volunteering

ISC2 Foundation Exam Developer

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.

CSIRT.global October 2024 to Present Remote

Research Volunteer Website

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

Uttunga - The Student Research Forum

Tech Team Member 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.

National Service Scheme (NSS) Documentation Team Member Website

2022-07-15 - 2023-04-18

2020-11-15 - 2023-01-18

Jain Deemed-to-be-University

Jain Deemed-to-be-University

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)

Email-ID: t.zaidi@jainuniversity.ac.in

Dr. Sanjeev Kumar Mandal

Final Year Project Guide & Research Guide; Assistant Professor, Jain University (School of CS & IT)

Email-ID: km.sanjeev@jainuniversity.ac.in