# Suman Garai

tech aficionado • maverick • gamer

⦿ Durgapur, West Bengal, India, 713205 | 📞 +91 77181 58733 | @ mr.sumangarai.3122@gmail.com | 🔗 Portfolio

## Profiles

| in aka-0x4c3dd | 🔷 0x4C3DD | ⦿ aka-0x4C3DD | ◑ aka.0x4C3DD | 📇 0x4C3DD |

## 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 | Jain Deemed-to-be-University, School of CS & IT, Jayanagar | 2020-07-01 to 2023-05-31 Bachelors of Computer Applications |
|---|---|---|---|
| Computer Science 8.27 CGPA 🔗 Website | | Information Security & Mobile Applications 8.1 CGPA 🔗 Website | |
| Hem Sheela Model School, Durgapur | 2018-04-01 to 2023-03-21 AISSCE (CBSE) | Hem Sheela Model School, Durgapur | 2006-04-01 to 2018-03-30 AISSE (CBSE) |
| Commerce B1 🔗 Website | | Fundamentals A2 🔗 Website | |

## Languages

| English | Hindi | Bengali |
|---|---|---|
| ●●●●○ | ●●●○○ | ●●●●● |

## Skills

**Information Security**
Beginner

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

**IT Governance & Risk Management**
Beginner

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

**Digital Forensics**
Beginner

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

**Soft Skills**

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

**Technologies**
Beginner

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

**Cryptography**
Beginner

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

**Networking**
Beginner

TCP/IP & OSI Model, Firewalls, HTTPS/TLS, SSL, DNS, UDP Protocols, IPv4 Subnetting, Signals

**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**                  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

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

### Cisco CyberOps (CBROPS v1) Course — 2025-01-15
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.

### Certified in Cybersecurity℠ — 2023-01-06
ISC2
🔗 Badge

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

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

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

### Google Cloud Career Practitioner — 2023-02-15
Google Developer Student Club - FET JU
🔗 Certificate

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

## 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 to December 2024
Conducted by Encode Club
🔗 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

### Solana Bootcamp Q4 2024 — November to 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

### Supply Chain Web dApplication — 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

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 colleges and universities in a real-world-inspired challenge to develop a skilled pool of 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
Jain Deemed-to-be-University
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.

### 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)

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