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

Ernst & Young - GDS India
June 2025 - Present
Tech Risk Associate — Kolkata, West Bengal, India
🔗 Website

- Audited major firms with a focus logical security assessments and information security risk evaluations.
- Performed ITGC testing covering User Access Reviews, Managed Access and Managed Change processes.
- Conducted CSAE 3000 & 3416, ISAE 3000 & 3402 controls aligned to ISO 27001 requirements and SOC 2 compliance testings.
- Collaborated with control owners to improve control quality and operability.

Edunet Foundation
2025-01-16 to 2025-03-26
Cyber Security & AI Intern — Remote
🔗 Website

- 4-week project-based internship with technical sessions, mentorship, and collaborative AI problem solving, earning certifications from Microsoft, SAP, AICTE, and Edunet.
- 6-week Cyber Security internship combining technical sessions, mentor-led learning, and a hands-on project, earning certification from IBM Skills Build, AICTE and Edunet.

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

- Test website functionality, design, and usability for optimal performance.
- Conduct comprehensive research on diverse subjects and tools.
- Deliver engaging workshops and presentations on various topics.
- Create high-quality, informative content across multiple domains.
- Efficiently manage multiple responsibilities while 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

Encode Club
2024-10-21 to 2025-03-27 — Bootcamp
Blockchain
Graduate & Participant
🔗 Website

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

Languages

English	Hindi	Bengali
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Skills

Information Security
Beginner

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

IT Governance & Risk Management
Beginner

COBIT 5, RISK & VAL IT, ISO 31000, PCIDSS, HIPAA, IAM, AAA, ISO 27001, NIST S.P. 800-53, Controls & Policies

Digital Forensics
Beginner

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

Cryptography
Beginner

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

Technologies
Beginner

Python, C, SQL, Linux, Hyperledger (Composer), Core IT Skills, Bash, MS Office Suite (Word Excel Powerpoint), GenAI

Soft Skills

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

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

Certifications

Security+ (Plus) SY0-701
2025-07-13
CompTIA
🔗 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.

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.

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.

ISO/IEC 27001:2022 Lead Auditor
2025-05-26
Mastermind Assurance
🔗 Badge

This course offered by Mastermind Assurance is a self-paced, expert-led training program designed to equip professionals with advanced skills in auditing Information Security Management Systems (ISMS).

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

Internship Projects
January to March 2025
Conducted by Edunet Foundation
🔗 Details

During my internships, I undertook two significant projects: one on AI, and the other on cybersecurity. These experiences provided practical exposure to these critical domains, enhancing my technical proficiency and problem-solving abilities.

steganography, python, tkinter, flask, html, css, js, tensorflow, opencv

Bootcamp Projects
October 2024 to Present
By Encode Club; Kaggle
🔗 Details

We completed multiple-domain focused projects as part of different boot camps during the specified duration, gaining hands-on experience in blockchain & genAI technologies.

solana-cli, rust, node, typescript, anchor, evm, solidity, hardhat, genAI

ClinicalGPT Medical Assistant
March to April 2025
Masters Degree Final Year Project
🔗 Github Repository

A sophisticated medical assistant application that combines large language models with trusted medical sources to provide accurate medical information and analysis.

python, pytorch, hugging face, flask, accelerate, pillow, playwright

Publications

Blog Articles
April 2023 to Present
Medium; LinkedIn Newsletter; ISC2 Insights
🔗 Details

A curated list of cybersecurity-related resources, including my Medium blog, LinkedIn Newsletter, and an ISC2 Insights article detailing personal experiences and lessons learned from encountering malware disguised as legitimate software.

Research Contributions
April 2024 to Present
ORCiD
🔗 Profile

My ORCID profile serves as a centralized hub where I manage and showcase my research contributions, affiliations, and professional activities, ensuring accurate attribution and streamlined integration with scholarly systems.

Acheivements

Best Original Research Award
September 2025
Blockchain in Healthcare Today (BHTY)
🔗 Certificates

Our research article was recognized for its significant global impact in healthcare and technology, measured by high views, downloads, and scholarly citations.

Squad Extraordinate
October 2025
EY GDS India — Canada Pool
🔗 Certificate

Via the "Extraordinary You" program, we got recognized for our outstanding dedication and teamwork in closing all controls, setting an example of EY's high-performing teams.

Affiliations

AWS Community Builder
March 2025 to Present
Security
Remote
🔗 Post

As an AWS Community Builder, I'll share expertise through blogs, webinars, and workshops while participating in specialized training, networking, and collaborative sessions with AWS security experts to advance innovation and community knowledge.

ISC2 Foundation
2024-06-05 to 2024-10-21
Exam Developer
Remote
🔗 Badge

Volunteered 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
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.

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.

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