

Suman Garai

tech aficionado • maverick • gamer

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

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.

Foundational 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 Tech Risk Associate Website	June 2025 - Present Kolkata, West Bengal, India	Edunet Foundation Cyber Security & AI Intern Website	2025-01-16 to 2025-03-26 Remote
<ul style="list-style-type: none">Audited major firms with focus on IT General Controls (ITGCs) including cybersecurity risk assessments.Conducted SOC 2 compliance testing for design and operational effectiveness of security controls.Performed logical security assessments and security services & risk management evaluations.Collaborated with control owners to enhance quality and operability of new and existing controls.			<ul style="list-style-type: none">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 Cyber Security Intern Website	2023-02-20 to 2023-08-17 Remote		
<ul style="list-style-type: none">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 Computer Science 8.27 CGPA Website	2023-08-16 to 2025-05-31 Masters of Sciences	Jain Deemed-to-be-University, School of CS & IT, Jayanagar Information Security & Mobile Applications 8.1 CGPA Website	2020-07-01 to 2023-05-31 Bachelors of Computer Applications
Encode Club Blockchain Graduate & Participant Website			Hem Sheela Model School, Durgapur Commerce B1 Website

Encode Club Blockchain Graduate & Participant Website	2024-10-21 to 2025-03-27 Bootcamp	Hem Sheela Model School, Durgapur Commerce B1 Website	2018-04-01 to 2023-03-21 AISSC (CBSE)
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Languages

English



Hindi



Bengali



Skills

Information Security Beginner	IT Governance & Risk Management Beginner	Digital Forensics Beginner	Soft Skills
Network Scanning, Data Mapping, Vulnerability Scanning, Exploit Framework, Web Security, Intel Gathering, Packet Analysis	COBIT 5, RISK & VAL IT, ISO 31000, PCI DSS, HIPAA, IAM, AAA, ISO 27001, NIST SP 800-53, Controls & Policies	Data Recovery, Steganography, Memory & Email Forensics, Diagnostics, Incident Response, Malware Analysis	Communication, Adaptability, Conflict Resolution, Creativity, Time Management, Problem Solving, Collaboration, Critical Analysis, Attention-to-detail, Teamwork
Technologies Beginner	Cryptography Beginner	Networking Beginner	Web Development Beginner
Python, C, SQL, Linux, Hyperledger Composer, Core IT Skills, Bash	PKI, Key Exchange, X.509 Digital Certificate, Ciphers, ECC, Block, Stream, Symmetric, Asymmetric, ZKP	TCP/IP & OSI Model, Firewalls, HTTPS/TLS, SSL, DNS, UDP Protocols, IPv4 Subnetting, Signals	HTML 5, CSS 3, Canva Websites, Github Pages, Typescript

Certifications

Security+ (Plus) SY0-701 CompTIA 🔗 Badge	2025-07-13	Certified in Cybersecurity SM ISC2 🔗 Badge	2023-01-06	Cisco CyberOps (CBROPS v1) Course Cisco NetAcad 🔗 Badge	2025-01-15
A vendor-neutral, foundational cybersecurity certification that validates essential skills across multiple domains, valued by IT security professionals and often required for cybersecurity roles.		The program provides professionals with globally recognized cybersecurity skills, covering risk management, incident response, and governance for entry-level roles positions.		This trains and validates SOC analysts' skills in security monitoring, host and network analysis, incident response, and security tools through hands-on labs.	

Projects

Portfolio Activity Different CyberSec Related Activity 🔗 Website	July 2022 to Present	Internship Projects Conducted by Edunet Foundation 🔗 Details	January to March 2025
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		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 By Encode Club; Kaggle 🔗 Details	October 2024 to Present	ClinicalGPT Medical Assistant Masters Degree Final Year Project 🔗 Github Repository	March to April 2025
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		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 Medium; LinkedIn Newsletter; ISC2 Insights 🔗 Details	April 2023 to Present	Research Contributions ORCID 🔗 Profile	April 2024 to Present
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.		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.	

Achievements

Certificate of Presentation - 2nd ICRDSTEM Uttunga & School of CS & IT, Jain University 🔗 Certificates	March 2023	Certificate of Participation - Pentathlon NCIIPC & AICTE 🔗 Certificate	April 2024
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.		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.	

Affiliations

AWS Community Builder Security 🔗 Post	March 2025 to Present Remote	ISC2 Foundation Exam Developer 🔗 Badge	2024-06-05 to 2024-10-21 Remote
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.		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 Research Volunteer 🔗 Website	October 2024 to Present Remote	Uttunga - The Student Research Forum Tech Team Member 🔗 Membership Certificate	2020-11-15 - 2023-01-18 Jain Deemed-to-be-University
Conducting security assessments of web applications, identifying and reporting vulnerabilities to help organizations strengthen their security posture and protect against cyber threats.		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
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