

# 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

<b>Cyber Sapiens United LLP</b> Cyber Security Intern <a href="#">Website</a>	2023-02-20 to 2023-08-17 Remote	<b>Edunet Foundation</b> Cyber Security & AI Intern <a href="#">Website</a>	2025-01-16 to 2025-03-26 Remote
<ul style="list-style-type: none"><li>Test website functionality, design, and usability for optimal performance.</li><li>Conduct comprehensive research on diverse subjects and tools.</li><li>Deliver engaging workshops and presentations on various topics.</li><li>Create high-quality, informative content across multiple domains.</li><li>Efficiently manage multiple responsibilities while meeting tight deadlines with exceptional results.</li></ul>		<ul style="list-style-type: none"><li>4-week project-based internship with technical sessions, mentorship, and collaborative AI problem solving, earning certifications from Microsoft, SAP, AICTE, and Edunet.</li><li>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.</li></ul>	

## Education

<b>KiiT Deemed-to-be-University, School of Computer Applications, Bhubaneshwar</b> Computer Science 8.27 CGPA <a href="#">Website</a>	2023-08-16 to 2025-05-31 Masters of Sciences	<b>Jain Deemed-to-be-University, School of CS &amp; IT, Jayanagar</b> Information Security & Mobile Applications 8.1 CGPA <a href="#">Website</a>	2020-07-01 to 2023-05-31 Bachelors of Computer Applications
<b>Encode Club</b> Blockchain Graduate & Participant <a href="#">Website</a>	2024-10-21 to 2025-03-27 Bootcamp	<b>Hem Sheela Model School, Durgapur</b> Commerce B1 <a href="#">Website</a>	2018-04-01 to 2023-03-21 AISSCE (CBSE)

## Languages

English	Hindi	Bengali
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## Skills

<b>Information Security</b> Beginner Network Scanning, Data Mapping, Vulnerablty Scanning, Exploit Framework, Web Security, Intel Gathering, Packet Analysis	<b>IT Governance &amp; Risk Management</b> Beginner ISO 27000, COBIT 5, RISK & VAL IT, ISO 31000, NIST 800, PCIDSS, HIPAA, IAM, AAA, Controls & Policies	<b>Digital Forensics</b> Beginner Data Recovery, Steganography, Memory & Email Forensics, Diagonstics, Incident Response, Malware Analysis	<b>Soft Skills</b> Communication, Adaptablty, Conflict Resolution, Creativity, Time Management, Problem Solving, Collaboration, Critical Analysis, Attention-to-detail, Teamwork
<b>Technologies</b> Beginner Python, C, SQL, Linux, Hyperledger (Composer), Core IT Skills, Bash	<b>Cryptography</b> Beginner PKI, Key Exchange, X.509 Digital Certificate, Ciphers, ECC, Block, Stream, Symmetric, Asymmetric, ZKP	<b>Networking</b> Beginner TCP/IP & OSI Model, Firewalls, HTTPS/TLS, SSL, DNS, UDP Protocols, IPv4 Subnetting, Signals	<b>Web Development</b> Beginner HTML 5, CSS 3, Canva Websites , Github Pages, Typescript

## Publications

<b>Exploring the Landscape of Password Managers for Individual Users Through Innovative Solution</b> Springer Nature <a href="#">DOI</a> 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.	April 2024	<b>Emerging Trends in Cybersecurity: A Holistic View on Current Threats, Assessing Solutions, and Pioneering New Frontiers</b> Blockchain in Healthcare Today (BHTY) <a href="#">DOI</a> This research proposes a cybersecurity framework, evaluated against existing defenses, to navigate and mitigate the complexities of the ever-evolving digital threat landscape.	April 2024
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Certifications			
<div>Security+ (Plus) SY0-701</div> <div>CompTIA</div> <div><a href="#">Google Cybersecurity Badge</a></div> <div>A vendor-neutral, foundational cybersecurity certification that validates essential skills across multiple domains, valued by IT security professionals and often required for cybersecurity roles.</div>	Preparing	<div>Cisco CyberOps (CBROPS v1)</div> <div>2025-01-15</div> <div>Cisco NetAcad</div> <div><a href="#">Badge</a></div> <div>This trains and validates SOC analysts' skills in security monitoring, host and network analysis, incident response, and security tools through hands-on labs.</div>	<div>Certified in Cybersecurity<sup>SM</sup></div> <div>ISC2</div> <div><a href="#">Badge</a></div> <div>The program provides professionals with globally recognized cybersecurity skills, covering risk management, incident response, and governance for entry-level roles positions.</div> <div>2023-01-06</div>
<div>Product Management Professional Certificate</div> <div>NASBA; IIBA; PMI; AHA; LinkedIn Learning</div> <div><a href="#">Certificate</a></div> <div>The certificate, provides foundational knowledge in product management, covering topics such as product development stages, strategy setting, and roadmap creation.</div>	November 2024	<div>Google Cloud Career Practitioner</div> <div>2023-02-15</div> <div>Google Developer Student Club - FET JU</div> <div><a href="#">Certificate</a></div> <div>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</div>	<div>Enterprise Security in Practice</div> <div>IBM Skills Build</div> <div><a href="#">Badge</a></div> <div>Earned the Enterprise Security in Practice badge by mastering hands-on techniques and tools to elevate an organization's security posture and enhance cyber resilience.</div> <div>2025-02-15</div>
Projects			
<div>Portfolio Activity</div> <div>Different CyberSec Related Activity</div> <div><a href="#">Website</a></div> <div>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.</div> <div>blue teaming, risk assessment, sql, linux, network analysis, documentation</div>	July 2022 to Present	<div>Internship Projects</div> <div>Conducted by Edunet Foundation</div> <div><a href="#">Details</a></div> <div>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.</div> <div>steganography, python, tkinter, flask, html, css, js, tensorflow, opencv</div>	January to March 2025
<div>Bootcamp Projects</div> <div>Conducted by Encode Club</div> <div><a href="#">Details</a></div> <div>We completed blockchain-focused projects as part of a bootcamp during the specified duration, gaining hands-on experience in blockchain technologies.</div> <div>solana-cli, rust, node, typescript, anchor, evm, solidity, hardhat</div>	October 2024 to Present	<div>ClinicalGPT Medical Assistant</div> <div>Masters Degree Final Year Project</div> <div><a href="#">Github Repository</a></div> <div>A sophisticated medical assistant application that combines large language models with trusted medical sources to provide accurate medical information and analysis.</div> <div>python, pytorch, hugging face, flask, beautiful soup, accelerate, pillow</div>	March 2025
Acheivements			
<div>Certificate of Presentation - 2nd ICRDSTEM</div> <div>Uttunga &amp; School of CS &amp; IT, Jain University</div> <div><a href="#">Certificates</a></div> <div>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.</div>	March 2023	<div>Certificate of Participation - Pentathlon</div> <div>NCIIPC &amp; AICTE</div> <div><a href="#">Certificate</a></div> <div>NCIIPC in collaboration with AICTE had conducted <u>India's first national-level VAPT exercise</u>, engaging colleges and universities in a real-world-inspired challenge to develop a skilled pool of pen-testers for securing critical information infrastructure.</div>	April 2024
Affiliations			
<div>AWS Community Builder</div> <div>Security</div> <div><a href="#">Post</a></div> <div>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.</div>	March 2025 to Present	<div>ISC2 Foundation</div> <div>Exam Developer</div> <div><a href="#">Badge</a></div> <div>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.</div>	2024-06-05 to 2024-10-21
<div>CSIRT.global</div> <div>Research Volunteer</div> <div><a href="#">Website</a></div> <div>Conducting security assessments of web applications, identifying and reporting vulnerabilities to help organizations strengthen their security posture and protect against cyber threats.</div>	October 2024 to Present	<div>Uttunga - The Student Research Forum</div> <div>Tech Team Member</div> <div><a href="#">Membership Certificate</a></div> <div>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.</div>	2020-11-15 - 2023-01-18
References			
<div>Dr. Taskeen Zaidi</div> <div>Subject Teacher &amp; Project Guide; Associate Professor, Jain University (School of CS &amp; IT)</div> <div>Email-ID: <a href="mailto:t.zaidi@jainuniversity.ac.in">t.zaidi@jainuniversity.ac.in</a></div>		<div>Dr. Sanjeev Kumar Mandal</div> <div>Final Year Project Guide &amp; Research Guide; Assistant Professor, Jain University (School of CS &amp; IT)</div> <div>Email-ID: <a href="mailto:km.sanjeev@jainuniversity.ac.in">km.sanjeev@jainuniversity.ac.in</a></div>	