

SAUMYA KUMAR

I POSSESS A PASSION FOR ENSURING THE CONFIDENTIALITY, INTEGRITY, AND AVAILABILITY OF INFORMATION SYSTEMS

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Skills

Languages: Python | MySql | HTML | CSS

Frameworks: Bootstrap | ISO 27001 | NIST

Operating Systems: Linux (Ubuntu, Kali)

Tools: AWS(EC2,S3) | Github | Power BI | MS Excel |

CMS: Wordpress | Shopify | WIX Studio

Skills: Website Development

Work Experience

PGPL, Indore | Database Intern Apr'23-Jun'23

- Enhanced data accuracy and optimized structures using MySQL.
- Collaborated cross-functionally, resolving issues, and implementing security measures

CLIQ MEDIA, New Delhi | Web Developer Intern Mar'24-Jun'24

- Developed websites using PHP, WordPress, and Shopify platforms.
- Collaborated on website design, development, and deployment projects.
- Assisting in debugging and troubleshooting technical issues
- Keeping up-to-date with industry trends and technologies to suggest innovative solutions.

Education

Rashtriya Raksha University (Gandhinagar Gujarat) 2024-2026

- Master of Technology (M.Tech) in Cyber Security

Sagar Group of Institutions (SIRT Bhopal), India 2020-2024

- Bachelor of Technology (B.Tech) in computer science engineering | CGPA: 8.0/10

Projects

RAM Cryptographic algorithm sep'23

- Engineered a secure algorithm using multi-key encryption, reducing brute force vulnerability.
- Implemented encryption methods, lowering brute force risks through intricate key structures.
- Addressed challenges in encrypting multimedia data, contributing to improved digital security practices.
- Uncovered vulnerabilities in modern ciphers, paving the way for fortified digital security.

Log Analytics Solution (AWS) Aug'23

- Implemented a scalable Log Analytics Solution on AWS, analyzing over 10 million logs daily to enhance operational efficiency and provide real-time insights organization-wide.
- Strengthened security with advanced encryption protocols and real-time threat monitoring, resulting in a 20% improvement in data protection and threat detection capabilities.
- Achieved a notable 30% enhancement in operational efficiency through the implementation of robust security measures.

Stega secure

Jan'25

- **Implemented** robust image-based steganography techniques, ensuring discreet message embedding and extraction
- **Integrated** an encryption feature using the cryptography library, bolstering security and confidentiality of hidden messages.
- **Created** an intuitive web interface with Flask, providing easy access to steganography functionalities for users.
- **Supported** multiple common image formats (PNG, JPG, JPEG), increasing the versatility and user convenience of the application.
- **Utilized** PIL (Pillow) library for efficient image processing, optimizing performance and compatibility across image formats.

Certifications

• AWS Certified Cloud Practitioner	Feb'23-Feb26
• Certified AppSec Practitioner (SecOps)	Apr' 23-Apr' 24
• Microsoft Certified: Azure Administrator Associate	Jul'23-Jul'26
• Generic Online Training in Cyber Security (MeitY), government of India	Nov'22
• Crash course on Python (Google)	Aug'23

Publications

Privacy and Security in Cloud Computing: A survey	Apr'22
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- <https://ijirt.org/Article?manuscript=154508>
- Published a research paper titled 'Privacy and Security in Cloud Computing: A Survey' in the International Journal of Innovative Research in Technology (IJIRT)

Security and laws of Cyber / Cloud Computing	Apr'23
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- <https://www.ijedr.org/viewpaperforall.php?paper=IJSDR2304266>.
- Published a research paper titled 'Security and laws of Cyber /cloud Computing' in the INTERNATIONAL JOURNAL OF SCIENTIFIC DEVELOPMENT AND RESEARCH.

Academic and Extracurricular Achievements

• Engaged in SMART INDIA HACKATHON 2024 , Featured 2nd rank out of 22 teams	Aug'24
• Participated in the 10th Bhopal Vigyan Mela 2023 , featured dynamic IoT project .	sep'23
• Acknowledged for volunteering at "Codebite 2k23" by Sheryians Coding School .	Mar'23
• Delivered webinar on cybersecurity at HackersForYou	Jan'24