RAHUL BHOGAL

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Cybersecurity professional with 1 year of experience as a Project Engineer at CDAC Bangalore, focused on cryptographic systems. Holding a Master's degree in Cybersecurity, I aim to apply my knowledge of secure protocols, system hardening, and risk analysis to contribute to advanced security solutions and protect organizational assets from evolving cyber threats.

EXPERIENCE

PROJECT ENGINEER

CDAC (Centre for Development of Advanced Computing) Bangalore | Bangalore, KA, India

AUG 2024 – PRESENT

- Worked on implementation and validation of symmetric and asymmetric cryptographic algorithms (AES, RSA, DSA, SHA, etc.).
- Developed and automated test vector generation for post-quantum cryptographic algorithms (ML-KEM, ML-DSA).
- Scripted and maintained secure bash tools to validate encryption schemes against NIST standards.
- Investigated vulnerabilities and updated legacy crypto implementations for modern OS compatibility (Ubuntu 20.04/22.04/24.04).
- Contributed to ISO/IEC 24759 compliance documentation for hybrid cryptographic modules.

Key Technologies: HTML, CSS, BootStrap, JavaScript, Bash, Git, OpenSSL, Ubuntu, ISO 24759, FIPS 140-3

EDUCATION

MASTER OF TECHNOLOGY (M. TECH) IN CYBER SECURITY

National Institute of Technology (NIT) Kurukshetra, Haryana

JUNE 2024

- **Dissertation:** Image Encryption using Amalgamation of a Novel Map and DNA Encoding
- CGPA 8.2

BACHELOR OF TECHNOLOGY (B. TECH) IN ELECTRICAL AND ELECTRONICS ENGINEERING

Rajasthan Technical University Kota, Rajasthan

JUNE 2019

- CGPA 7.2

PULICATION

- Dua, M., & Bhogal, R. (2024). Medical image encryption using novel sine-tangent chaotic map. e-Prime-Advances in Electrical Engineering, Electronics and Energy, 9, 100642. https://doi.org/10.1016/j.prime.2024.100642
- Dua, M., Bhogal, R., Dua, S., & Chakravarty, N. (2024). Satellite image encryption using amalgamation of randomized three chaotic maps and DNA encoding. Physica Scripta, 100(1), 015241. DOI 10.1088/1402-4896/ad996a

SKILLS

- **Programming Languages:** Java, JavaScript, C
- **Font-end Development:** HTML5, CSS, Bootstrap
- **Back-end Development:** Node.js, Express.js
- **Version Control:** Git, GitHub, GitLab
- **Database:** MongoDB, MySQL
- **Soft Skills:** Creativity, Problem Solving, Clarity of Thinking

ACHIEVEMENT

- Qualify GATE 2022 with Score 359
- Published 2 research papers in reputed journals during M. Tech
- Secured 10.0 SGPA in both 3rd and 4th semesters of M. Tech