

# Catherine Rose Animon

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## SKILLS

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- **Testing & Analysis:** Kali Linux, Wireshark, Nmap, Metasploit, Hydra
- **Programming Languages:** C++
- **Operating systems:** Kali Linux, Windows
- **Virtual Labs & Practice Platforms:** TryHackMe, VMware Workstation
- **Productivity Tools:** G Suite (Docs, Sheets, Slides, Gmail)

## PROFESSIONAL EXPERIENCE

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### Internship (Current)

**Techbyheart** | Kochi, Kerala (16-06-2025) – **Present**

- **Actively engaged** in dedicated hands-on lab experiences, **developing and validating** practical proficiency with industry-standard cybersecurity tools (e.g., Nmap, Wireshark, Metasploit).
- **Applying** real-time knowledge to simulated scenarios, reinforcing skills critical for security operations and threat analysis.
- Building a current and highly relevant skillset, demonstrating commitment to continuous, application-based learning.

## PROJECTS

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- **Integrating Hyperchaotic Maps and AES Techniques for Enhanced Security in Surveillance Systems:**

April 2025

Developed a secure video encryption model that uses Hyperchaotic Maps for dynamic key generation and AES (CBC mode) for robust frame-level encryption. Achieved high performance with an SSIM of 0.9998, PSNR of 62.53 dB, and MSE of 0.04 on surveillance datasets.

**Tech:** AES, Chaos Theory, Image Processing, Cryptography

- **Clickbait Detection Model:**

January 2024

Built a CNN and Fast-Text model that can determine whether a video is clickbait or not. The model took thumbnail, title, comments, likes and dislikes as parameters. **Tech:** Machine Learning algorithm – CNN, Fast-Text

## CERTIFICATES

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- CEH (Certified Ethical Hacker) – EC-Council (*In Progress*) June 2025
- IBM Cloud Essentials course certificate by edX May 2022
- Google cloud ready facilitator program certificate June 2021

## ACHIEVEMENTS

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- **Research Paper Publication**

- **Clickbait Detection Using Machine Learning**

- Systematic Literature Review Conference: - 7th International Joint Conference on Computing Sciences “KILBY100” A Literature Review was conducted on 15 papers published from 2016-2022. (ICCS-2023)

## EDUCATION

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- **Lovely Professional University**

- Integrated BTech MTech - Computer Science and Engineering; **CGPA: 8.35**

- **S.H.C.G.H.S. School**

- Intermediate; **Percentage: 100%**

- **S.H.C.G.H.S. School**

- Matriculation; **Percentage: 95%**

Punjab, India

August 2020 - May 2025

Chalaky, Kerala

July 2018 - March 2020

Chalaky, Kerala

May 2016 - March 2018