

KRIPA JAYAKUMAR

Experienced programmer, passionate learner and award winning researcher looking out for digital forensic and cyber sec oppurtunities.

Contact Details

Please research out to me personally I will be happy to provide you with my contact

www.kripajay.com









WORK EXPERIENCE

Connex Information Technologies

2022 - Present

Informatics Institute of Technology

2018 - Present

National Institute of Business Management

2019 - 2022

AMDT School of Creativity 2019 - 2021

99x (Former: 99X Technology) 2015 - 2019

SOC Analyst - Level 1

 Monitoring and analyzing security incidents to identify and respond to potential cybersecurity threats for a large conglomerate in Sri Lanka

Visiting Lecturer

- Courses: 'Programming', 'Web Development', 'Databases', 'Software Development', 'Security & Forensics'
- Final Year research supervisor & mentor for technical projects

Visiting Lecturer

- Courses: 'Web API Development' with a focus on REST principles and built on top of MERN Stack
- · Final Year research supervisor

Visiting Lecturer

Courses: 'Web Development' and 'Advanced Web Development'

Associate Technical Lead

- Worked for clients in Scandinavia (Norway and Sweden)
- Quick career progression from Software Engineer (2015) to Senior Software Engineer (2017) to Associate Tech Lead (2018)
- Emerging Employee Excellence Award recipient; Initiative leader for University Relations

EDUCATION

University of Westminster

[Degree followed at IIT, Sri Lanka] 2022

University of Westminster

[Degree followed at IIT, Sri Lanka] 2015

Belvoir College International 2011

Masters, MSc. Cyber Security and Forensics

- Gold Medal for Academic Excellence; Award: Distinction
- Award winning research on Deepfake detection and forensics

Bachelors, BEng. Software Engineering

- Award: First Class Honors
- Westminster Award for Best All-round Performance

High School

- Edexcel GCE A Level 2As and 2Bs
- Head Prefect

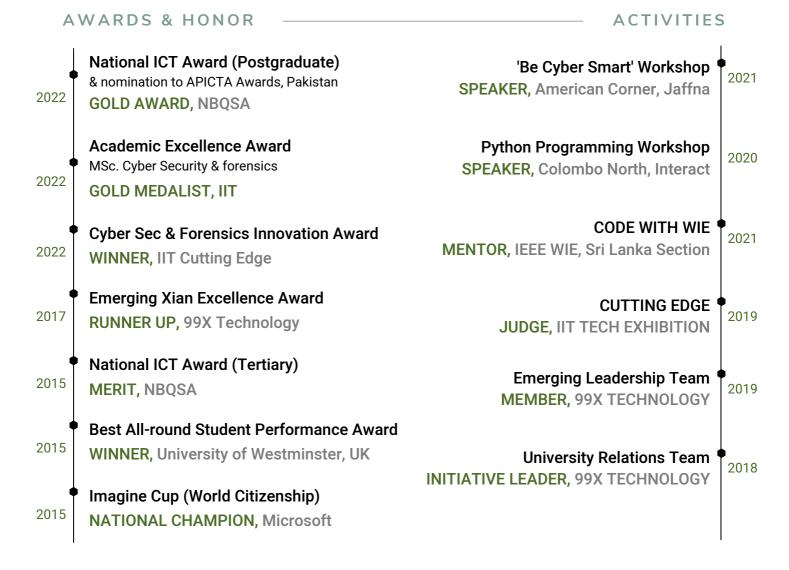
INTERESTS

- Digital Forensics
 - Aspiring to become a forensic investigator
- Cyber Security
 - Passionate field of research interest
- Programming
 - Good coding knowledge with experience

Lecturing

Technically educating the young minds of tomorrow

Knowledge Sharing



AWARD WINNING PROJECTS

XAIVIER - A Visually Interpretable Forensic Deepfake Detection Toolkit

Key Areas: Digital Forensics, Media Manipulations, Cyber Crime Detection, Deepfakes.

Description: Majority of current deepfake detection solutions only classify a video as a deepfake without any explanations. However, these works fail in situations where transparency behind a tool's decision is crucial, especially in a court of law, where the court may demand justifications for why a video is a deepfake. XAIVIER provides a toolkit for digital forensic investigators to efficiently analyze an uploaded video, predict if it is a deepfake, and also get explanations behind why the tool predicted it as a deepfake. XAIVIER consists of a 'Deepfake Detector' which is built using a SOTA AI (Deep Learning) model that performs predictions on deepfake videos, to an accuracy of 92%. It also contains a 'Prediction Explainer' that uses and Explainable AI (XAI) algorithm called 'Anchors' to visually pinpoint the exact areas of forgery in the video and yields an anchor affinity score of 70.23%.

REFEREES

Dr. Nimalaprakasan Skandhakumar

Senior Security Training Coordinator Department of Customer Service NSW Government, Australia

Ms. Abarnah Kirupananda

Senior Lecturer Informatics Institute of Technology Sri Lanka