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

SOC Analyst - Level 1

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

Informatics Institute of Technology
2018 - Present

Visiting Lecturer

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

National Institute of Business Management
2019 - 2022

Visiting Lecturer

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

AMDT School of Creativity
2019 - 2021

Visiting Lecturer

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

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

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

Masters, MSc. Cyber Security and Forensics

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

University of Westminster
[Degree followed at IIT, Sri Lanka]
2015

Bachelors, BEng. Software Engineering

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

Belvoir College International
2011

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**
  Content creator raising cyber security awareness

AWARDS & HONOR

2022 — **National ICT Award (Postgraduate)**
& nomination to APICTA Awards, Pakistan
GOLD AWARD, NBQSA

2022 — **Academic Excellence Award**
MSc. Cyber Security & forensics
GOLD MEDALIST, IIT

2022 — **Cyber Sec & Forensics Innovation Award**
WINNER, IIT Cutting Edge

2017 — **Emerging Xian Excellence Award**
RUNNER UP, 99X Technology

2015 — **National ICT Award (Tertiary)**
MERIT, NBQSA

2015 — **Best All-round Student Performance Award**
WINNER, University of Westminster, UK

2015 — **Imagine Cup (World Citizenship)**
NATIONAL CHAMPION, Microsoft

ACTIVITIES

'Be Cyber Smart' Workshop — 2021
SPEAKER, American Corner, Jaffna

Python Programming Workshop — 2020
SPEAKER, Colombo North, Interact

CODE WITH WIE — 2021
MENTOR, IEEE WIE, Sri Lanka Section

CUTTING EDGE — 2019
JUDGE, IIT TECH EXHIBITION

Emerging Leadership Team — 2019
MEMBER, 99X TECHNOLOGY

University Relations Team — 2018
INITIATIVE LEADER, 99X TECHNOLOGY

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

Please research out to me personally for the referee contact details and I will be happy to share it with you