KARTHIKEYAN VENKATESAN

Cybersecurity Professional

CONTACT

+918007865260

kar120997@gmail.com

https://www.linkedin.com/in/karthikeya n-venkatesan/

https://github.com/vkarthikeyan12?tab= repositories

LANGUAGES

English

Hindi

Marathi

Tamil

SKILLS

Blue Teaming (SOC)

Red Teaming (VAPT)

Purple Teaming (CTI and frameworks)

Leadership

Visionary

Presentation skills

PROFILE

I am a cybersecurity professional with 8 years of academic experience, including 1 year and 1 month of industry experience gained through an internship. I am highly motivated to pursue a full-time role in cybersecurity, with a strong interest in both technical and research-based positions at the junior level. My expertise lies in networking, hardware, and research, with a particular passion for contributing to innovative technologies in research-driven roles. However, in non-research-based positions; I am equally dedicated to learning from and contributing to the growth of the organization. Additionally, I possess strong programming skills in Python, Bash, and C++, enabling me to tackle diverse challenges in the field effectively.

EDUCATION HISTORY

Master of Cyber Security (Cyber Defence), Jul 2020 - Jul 2022
The University of Queensland, Australia

Achievements:
1. Received High Distinction (HD) in Fundamentals of cyber security course.
2. Received High Distinction (HD) in Cyber incident response course.
3. Received High Distinction (HD) in AI for cyber security course.

Advanced Diploma in Information Security (ADIS), Jul 2019 – Jul 2020
Innobuzz (Affiliated to NASSCOM), India

Achievements:
1. Received Various certifications while undergoing program. View Here

Bachelor of Engineering (CSE), Dec 2015 – Jun 2019
LNCTE, Bhopal, Madhya Pradesh, India

Achievements:
1. Scored 7th position in zonal round of Arduino workshop of team technoxian

GENERAL INTERESTS

- My main interests are in learning cybersecurity TTPs constantly through exploit-db and searchsploit.

- Learn other skills of hacking using tryhackme. View Here

- Update myself about new technologies using IBM. View Here

- I own a flipper zero and network module. I like to experiment with my device, fiddling over different frequencies harmlessly.

- Prefer reading books and journals

- I play table pool and go to the bowling arena in my free time.

RESEARCH INTERESTS

I'm majorly interested in different aspects of computer science. These include computations, computer networks, radio frequencies, AI computations, game coding, Cybersecurity.

conducted by ED cell, IIT Delhi. View Here
2. Our research model came as runner up in state level competition. View Here
3. Filed a patent for the same research model. View Here
4. Published a research article in Scopus indexed journal. View Here

WORK EXPERIENCE

Assistant Professor, JD College of Engineering and Management. June 2025 – current
- I have a teaching load of 2 subjects namely: cybersecurity and privacy, cybersecurity and cryptography.
- Have taught 2 subject in past: cybersecurity laws and cybercrime, computer networks
- Got additional 7 portfolios as: achievement and incentive incharge, content beyond syllabus, departmental workshops, guest lectures, class incharge, Gate incharge and teacher guardian.

Cyber Security Intern, EazyML, remote. April 2025 – current
- Initially I worked around creating a security plan for the organization
- Worked on a python flask project to integrate SAML SSO to the organisations endpoints
- Worked on an additional project to integrate OIDC SSO to endpoints but the organization rejected the idea of using OIDC SSO
- Both OIDC and SAML SSO were role based project with user and admin level roles

Cyber Security Intern, GroundProbe, Australia. Jul 2021 - Jul 2022
- Initially worked with SIEM using Splunk was part of the SOC team

Additionally, I'm interested in topics related to HCI, cognitive sciences, behavior economic sciences, behavior models, sociology, psychology, conflict management, virtual teams.

Also, I'm interested and have knowledge about human aspects like lockpicking, shoulder surfing, tailgating, cloning rfids, and social deduction.

- Did Pen testing and drafted vulnerability reports for the organization
- Implemented a custom framework by analyzing various CTI according to the organization and parent organizations posture.
- Tabulated TTPs of the organization by using ATT&CK navigator.

Cloud Architect Intern, Cybrom Technologies Pvt. Ltd, Bhopal, India. Jul 2018 - Aug 2018

- Initially started designing cloud environments using amazon EC2.
- Maintaining cloud environments using Docker and monitoring cloud performance using CloudWatch
- Handling the security of various dockers containers in a kubelet.

CONFERENCES ATTENDED

1. International Conference on Big Data, Cloud Computing and Intelligent Systems (ICBDCCIS), 2019

2. UQBS Colloquium, 2023

3. Australia and New Zealand Academy of management (ANZAM) virtual, 2023

4. UQ Cyber Security Research Conference (UQ CSRC), 2023

5. CrickeyCon IX, 2024

6. Auscert Conference, 2024

7. Bsides Brisbane, 2024

VOLUNTARY EXPERIENCES

Research Volunteer, Entrepreneurship cell, LNCTE. Jan 2018 – Jan 2019

- Engaged in 2 transformative projects over the year
- Became Team Lead in a project involving the use of QR technology assisted with ANPR using TensorFlow and cv2 for collection and monitoring of tolls using QR.
- Became Project Lead involving the use of SMS/MMS using AI to send data including images using chunk sizes and FTP without the use of internet.

UQCyberSquad, UQ, Australia. Jul 2020 – Dec 2024

- Became a voluntary member of Cybersquad, a local student body in UQ which promoted cybersecurity
- Participated in the CTF named Hackasat involving principles of rocket science like Euler's algo and cybersecurity knowledge. We came 73rd in the event.
- Participated in the CTF named BOTS (Boss of the SOC) which focused on searching entities using Splunk, we came 81st out of 220 teams.
- Participated in CMD + CTRL simulated cloud hacking. We came 35th in the event.
- Got Selected to Represent Australia in Global Cybersecurity Camp (GCC2022). View Here
- Came Third in CTF organized by NTT and SANS named Digital Minds based over social engineering.
- Came Third in Down Under CTF 4.0 in university level. Our team was 59th out of 2074 teams globally. View Here
- Became CTF officer representative in October 2022. View Here
- Conducted two workshops regarding OSINT and Metasploit for Cybersquad in April and August 2023.
- Trained students in cybersecurity. My strong areas include networking. OS hardening and radio security.
- Became President of Cybersquad in October 2023. View Here
- Conducted Workshops in various Highschools (Kenmore SHS, etc.) using UQ outreach to boost cybersecurity interest in high school in Australia.
- Our Workshop named "Crack the Code" became popular amongst high schoolers where the aim was to crack 10 ciphers using Vigenère table.
- Our club got featured in UQ magazine for our ongoing efforts to promote cybersecurity in UQ.

UQ Reality Labs, UQ, Australia. Apr 2023 – Dec 2024

- Became a voluntary member of Reality Labs, a local student body in UQ which promoted XR technologies and digital realms.
- Became a Growth and Engagement director representative in December 2023.
- Created initiatives to organize a XR project to link UQ outreach and UQ Reality Labs to foster high school students into XR.
- Created workshops to streamline XR interests within the club

- Participated in Nudgeathon event hosted by Warwick University and QUT representing the club to implement cognitive design using concepts of behavior economics and XR. [View Here](#)
- Became Casual Secretary in August 2023. [View Here](#)
- Helped in organizing rooms and dietary requirements for the event named "Careers in XR and gaming". Additionally helped in inviting speakers and representatives from Halfbrick, Playside, Gameloft, DBM Vircon, MAXART, TAFE Queensland and Alta. This was a collaborative event between two universities, UQ and QUT. [View Here](#)
- We won the best club of the year award under EAIT (technology) faculty. [View Here](#)

PUBLICATION

1. V.Karthikeyan, Ruchi Jain., "Offline AI Bot Technique to Fetch Retrieve and Update Data in Online Real Time Environment" in 2019 International Journal of Scientific & Technology Research, October 2019, vol 8, ISSN 22778616.

REFERENCES

1. Dr. Marie Boden, Senior Lecturer, School of Electrical Engineering and Computer Science, Faculty of Engineering, Architecture and Information Technology, The University of Queensland.

2. Prof. Guangdong Bai, Associate Professor, Software Engineering, School of Electrical Engineering and Computer Science, Faculty of Engineering, Architecture and Information Technology, The University of Queensland.