Mr. N.Vishnu Venkatesh

Assistant Professor of Cyber Forensics & DFIR || Cyber Security Trainer || Researcher || Forensic Enthusiast || Cyber Forensics Expert

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SUMMARY:

Cyber Security and Digital Forensics professional with 5+ years of experience in teaching, DFIR operations, cybercrime consultancy, SOC methodologies, data governance, and R&D. Skilled in SIEM, threat hunting, network forensics, malware analysis, AI-driven forensics, and cybersecurity training.

KEY ACHIEVEMENTS:

- ❖ **Enhanced Crime Solutions :** Trained 500+ officers in digital recovery tools, improving crime solution rates by 20%.
- ❖ **Innovative Cyber Research :** Published 13 research papers on cyber forensics in reputed journals**.**
- ❖ **Facilitated Knowledge Sharing :** Led 7 forensic workshops with participation from 10+ international universities.
- ❖ **Analyzed Cybercrime Cases :** Advised on 200+ cybercrime cases, assisting law enforcement agencies.

PROFESSIONAL:

- ❖ **Assistant Professor (08/11/2021 - Present)** JAIN (Deemed-To-Be University), Bengaluru, Karnataka
- ❖ **Cyber Security Trainer (25/02/2021 - Present)** On Request Basis
- ❖ **LINC Fellow (01/06/2025 - Present)** USA (Remote)
- ❖ **Assistant Professor (12/06/2021 - 25/09/2021)** Kalasalingam Academy of Research and Education, Srivilliputhur, Tamil Nadu
- ❖ **Cybercrime consultant (24/02/2021 – Present)** Cyber Cell, Crime Branch Durg, Bhilai, Chhattisgarh – 490006, India.
- ❖ **Researcher (10/06/2018 - 09/07/2018)** CRPF Nagpur, Hingna Road, opp Lata Mangeshkar Hospital, Nagpur, Maharashtra
- ❖ **Researcher (21/05/2018 - 06/06/2018)** INTERNATIONAL FORENSIC SCIENCES, KK Market, Pune, Maharashtra
- ❖ **Project Lead (05/07/2013 - 09/08/2014)** ICAR, Silverfish Epidermal Proteins, PUSA, New Delhi
- ❖ **Computer Hardware and IT Support (On request basis)**

EDUCATION:

- **Ph.D. Cyber Forensics & Counter Cyber Terrorism (Pursuing)**
  JAIN (Deemed-to-be) University, Bengaluru
- **M. Sc. Cyber Forensics - 9.4 CGPA**
  Institute of Forensic Science, **National Forensic Science University**, Gandhinagar– 382007, India.
- **B. Sc. Forensic Science - 8.65 CGPA**
  Department of Chemistry, **Amity University Haryana**, Gurgaon – 122413, India.

RESEARCH AREAS:

- Network Forensics
- Dynamic Malware Analysis
- Reverse Engineering
- GPS Triangulation
- VOIP, SIP and Header Tracing
- AI & ML in Forensic Science
- Drone Forensics
- Hardware Manipulation
- Integrated Database management system for FSL
- Cyber Crime Prevention
- Applications of Nanotechnology in Forensic Science
- Cost-efficient Casting Material

PATENTS:

- **SMART DIGITAL LOCK SYSTEM**- Utility patent - 202441066661
- **BLOCKCHAIN FORENSIC HARDWARE MODULE**- Utility patent- 202441067355
- **DOOTH** : A Counter Surveillance BLE device audio interceptor Device - Utility Patent - IN/E-1/59497/2025-CHE
- **RAKSHAK** : A Voice Classifier cum Identifier - Utility Patent - IN/E-1/70706/2025-CHE
- **KARNA** : Angular Pressure resistant Headphones for Tactical Units- Utility Patent - IN/E-CoE/GC-2024IDWP-001
- **VOICE INTERPRETER HOUSING UNIT :** Integrated housing unit for Dooth - Design Patent Grant - 471741-001

PROJECTS:

- **Angular Pressure resistant Headphones for Tactical Units- Ministry of Electronics and Information Technology - Granted Project- CoE/GC-2024IDWP-001**
- **3D Imaging using vantage point data**
  Developed an isometrics-based technique to create a 3D blueprint of the building with security and vigilance parameters.
- **SIP Vulnerability Testing Framework**

Framework to test VoIP services against common vulnerabilities (e.g., SIP fuzzing).

- ❖ **Custom SIP Softphone**

  Built a SIP-based softphone that can register with Asterisk or Free SWITCH and make audio calls.
- ❖ **VoIP Packet Analyzer**

  Developed a tool to capture and decode SIP and RTP packets, with call flow visualization.
- ❖ **SIP Call Recording and Logging System**

  Developed a system that logs SIP call metadata and captures audio recordings for each call.
- ❖ **Custom IMSI catcher for law enforcement**

  Developed an easy way to do the CDR analysis
- ❖ **Rootkit Analysis**

  Developed Statistical comparison tool for Rootkit analysis as a prerequisite to Incident Response.
- ❖ **Digital Photography**

  Digital enhancement of the low-resolution images and restoration of the same.
- ❖ **Digital Database for Forensic Lab**

  Demonstrated the possibility of easy and compatible storage of large-sized data and management.
- ❖ **Cost-Efficient Casting Material**

  Developed an easy-to-make casting material for tool mark extraction during crime scene Investigation
- ❖ **Energy Transmission Using Nanotechnology**

  Minimizing the radiation strength by nanotube and gel mechanism
- ❖ **Phyto Morphological Study on the Leaf as a Forensic Evidence**

  Midrib length Hypothesis and compared morphological characteristics of leaf and created a database for the same

RESEARCH & TEACHING EXPERIENCES:
- ❖ Research Experience : 5 Years
- ❖ Teaching Experience : 5 Years

AWARDS AND RECOGNITIONS (Selected):
- ❖ **Best Prototype Design Award** - Ministry of Electronics and Information Technology & CDAC Noida joint Initiative
- ❖ **American Psychological Association :** International Membership : Credential ID C2404942711
- ❖ **EC Council Certification**: Certified Ethical Hacking, Digital Forensic and Incident Response,and Networking.
- ❖ **Trained Hindustan Aeronautics Limited (HAL)** officers in Digital Forensics and Cyber Security.
- ❖ **Trained Karnataka Science & Technology Association (KSTA - DST)** Scientists in DFIR and e-governance.
- ❖ **Certified OPSWAT** Network Security Associate.
- ❖ **Certified Microsoft** System Security Auditor.
- ❖ **Best Research paper award** at **ISENTIENT 2022** for the topic " Perimetric Surveillance and End Point

Security using Intranet & VOIP ''

- ❖ **Two Times UGC NET Qualified (Dec 2019, Dec 2020)** Qualified UGC-NET & JRF Examination For eligibility for Assistant Professor in the subject of Forensic Science.
- ❖ **NSA, US Homeland Security Certified** Cyber Crime Investigator .
- ❖ **Google IT Support (08/04/2020)** Professional Certificate.
- ❖ IBM IT Fundamentals for Cyber Security (08/06/2020) four Courses Non-Credit Professional Certificate.
- ❖ **CERTIFICATE** - Autopsy Advance and Hands-on (72 Hours).
- ❖ **ICSI Certified** Network Security Specialist (26/08/2020).
- ❖ **CERTIFICATE** - Android Penetration Testing.
- ❖ **National Youth Parliament** (Best Prime Minister Award).
- ❖ Jawaharlal Nehru National Science Exhibition (First Prize).

MANAGEMENT SKILLS:

- ❖ **Organizer: MODEL G20 Summit, 2023** Organizing Secretary of the event
- ❖ **Organizer: INAC (Industry-Academia Confab) 2023** Technical assistance and helped to create a network and organize the event.
- ❖ **Organizer: Advanced Hands-On Training Of Cyber Forensic Tools By Techbyheart** Technical assistance and provided expertise.
- ❖ **ERP Portal Technical Assistance** Maintaining and organizing the ERP database
- ❖ **5. EVENTS Coordinator**
    - ➢ Organized Industrial visits and brought MoUs to the University
- ❖ **6. Chairperson**
    - ❖ Responsibly mitigated student complaints and organized various non-cgpa events for them.

SCIENTIFIC PUBLICATIONS & SCIENTIFIC PRESENTATIONS:

- Total Number of Research Publications: 13
- Papers presented in international/national conferences/seminars: 11
- Technical Certifications: 61

LANGUAGES :

Computer Languages (Working Proficiency) : Node Js, Python, Ruby, Rust, HTML and C/C++
Human Languages : Tamil, English, Hindi, Malayalam,Telugu, Kannada, German, Bengali, Marathi , Punjabi

PERSONAL PROFILE:

- ✿ Father's Name: Mr. M. Natarajan
- ✿ Nationality: Indian
- ✿ Permanent Address: IE/3A, Dharma Kovil Street, Marudhapattinam Road, Near Vivek Fish Farm, Thiruvarur, Tamil Nadu (610001)