

## FRANCIS MANNA

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### PROFESSIONAL SUMMARY

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Diligent Cyber Security Specialist proficient in online security research, planning, execution, and maintenance. Adept at training and educating internal users on relevant cyber security procedures and preventative measures. Specialize in network monitoring, security software installation, and working to prevent cyber attacks, especially in business and corporate settings.

### EDUCATION

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#### NATIONAL FORENSIC SCIENCES UNIVERSITY

India, Gujarat

##### MSc Cyber security

2020-2022

Cumulative GPA: 8/10; First Class, Distinction

**Relevant Coursework:** Artificial Intelligence and Data Science, Web Application Security

Cyber Security Audit and Compliance, Network Security,

Threat Hunting and Scripting, Malware Analysis,

Cyber Security Essential and Incidence Response,

Mobile Phone Security, Cloud Security,

Digital Forensics

#### NJALA UNIVERSITY

Sierra Leone, FN

##### MSc Management Information Systems: Project

2019-2023

Cumulative GPA: 4.38/5

#### NJALA UNIVERSITY

Sierra Leone, FN

##### Bachelor of Science Honors in Computer Science

2013-2017

Cumulative GPA: 4.19/5;

Relevant Coursework: Data Analysis, Operating Systems

Java, C++ programming, SQL, HTML, SPSS,

#### NJALA UNIVERSITY

Sierra Leone, FN

##### Higher Diploma in Computer Hardware and Electronics

2010-2013

### SKILLS:

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- Strong understanding of cybersecurity principles, practices, and technologies.
- Proficient in various cybersecurity tools and software, including antivirus programs, firewalls, intrusion detection systems, and vulnerability assessment tools.
- Expertise in identifying and mitigating security threats, such as malware, phishing attacks, and data breaches.
- Familiarity with security standards and frameworks, such as ISO 27001, NIST, and PCI DSS.
- Experience in conducting risk assessments and implementing risk management strategies.

## WORK EXPERIENCE

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**Research and Teaching Assistant** Department of Computer Science and Information Systems,  
Njala University Sierra Leone. **Since 2019**

- Collect and analyze data, code and prepare data.
- Work under the general supervision of the Professor who responsible research projects performing standard and complex laboratory procedures.
- Project Support Assist with research projects with preparation of proposals, market reports, applications and other documents
- Deliver a range of teaching and assessment activities including tutorials directed towards the delivery of subjects at undergraduate level
- Apply departmental processes related to peer advising/mentoring
- Support with faculty research projects; engage in literature searches
- Involved in the development of new material for department courses
- Contribute to the development of appropriate teaching materials to ensure content and methods of delivery meet learning objectives
- Participate in the assessment process using a variety of methods and techniques and provide effective, timely, and appropriate feedback to students to support their learning
- Supervise practical work advising on skills methods and techniques to assist the transfer of knowledge

**7th Sense™ Management Consulting & Training Limited** Cyber Security Analyst Intern **Feb 2022**

- Provided base-level IT support to 10+ non-technical personnel within the business.
- Installed software, modified and repaired hardware, and resolved technical issues; increased efficiency by 15%.
- Worked on identifying and developing processes and controls to protect IOT and connected platforms from  
Cyber threats, company-wide
- Assisted with selection and implementation of controls that apply security protections to systems, processes  
and information resources using the nist family of security controls
- Discover networks anomalies and malicious traffic using advanced analytics
- Worked with Nessus tool, Nmap, Wireshark,

**CyberSapiens United LLP India**, Cyber Forensic Intern

**May 2022 – August 2022**

- Discovered 3+ new potential vulnerabilities, threats in the web servers, and suggested upgrades.
- Identified malware and intrusion issues.
- Conducted initial research based on analytic experience.
- Examined alerts from various security monitoring tools.
- Monitored, investigated, and reported incidents of suspicious activity.
- Identified potential risks, such as virus and malware attacks, and hacking.
- Assisted with implementation of counter measures, as well as mitigating controls.
- Provided and developed the forensic capability to enhance response to the investigation.
- Fixed detected vulnerabilities, in order to maintain high security standards.

## VOLUNTEERING

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### **NJALA UNIVERSITY. Sierra Leone, Cybersecurity training and skills development Specialist Sept 2019**

- Designed, developed, and delivered comprehensive cybersecurity training programs to employees and students focusing on best practices, security policies, and incident response procedures.
- Conducted assessments to identify the university training needs and developed tailored training materials to address identified gaps.
- Tracked and evaluated the effectiveness of training programs through assessments and feedback surveys, adapting content as needed to better meet learner needs.
- Provided one-on-one coaching and mentoring to employees and students in areas of cybersecurity skills development.
- Actively participated in and organized cybersecurity awareness events and workshops to promote a security-conscious culture across the organization.
- Collaborated with external vendors to deliver specialized training programs and workshops on emerging cybersecurity trends and technologies.
- Assisted in the development and maintenance of cybersecurity policies, standards, and procedures in accordance with industry best practices and regulatory requirements.
- Conducted regular security awareness campaigns, creating engaging content and utilizing various communication channels to educate employees about cyber threats and best practices.

## PUBLICATION

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- **Forensic analysis of Blue Talk ( Random Chat) Book chapter**  
DOI: <https://doi.org/10.52458/978-81-955020-5-9-8>

## MAJOR PROJECTS

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- **Incidence response of endpoint using PowerShell**
- **Digital Currency Wallet Forensics**
- **Forensic analysis of Blue Talk ( Random Chat)**

## MEMBERSHIPS

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- **Soft Computing Research Society** *Since 2022*

## PROGRAM COMMITTEE MEMBER AND REVIEWER

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- **IEEE World Conference on Applied Intelligence and Computing (AIC 2022)**  
June 17-19, 2022.

- **International Conference on Communication on Communication and Intelligence Systems**  
*December 19-20, 2022.*
- **International Conference on Communication and Computational Technology** held during  
*January 28-29, 2023 India*
- **International Conference on Power Engineering and Intelligent Systems**  
*June 24-25, 2023*
- **4<sup>th</sup> International Conference on Data Science and Application**  
*July 14-15, 2023.*
- **2023 IEEE World Conference on Applied Intelligence and Computing (AIC 2023)**  
*July 29-30, 2023*
- **International Conference on Artificial Intelligence: Theory and Application**  
*August 11-12, 2023*

## ACTIVITIES

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### HackerLab Africa CTF Competition *Benin, October 2022*

- Represented Sierra Leone in the regional Hacker Lab Africa CTF Competition

### Njala University Association of IT Students **Sierra Leone**, Committee Member *since October 2014.*

- Organized hands-on training, webinars and seminars in computer forensics, Cybersecurity Awareness for 500+ students.

## ADDITIONAL

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### Technology Skills

<i>Security:</i>	Advanced user of intrusion-detection, IDS/IPS, DLP, SIEM, vulnerability-scanning, Web gateway, proxy appliances and antivirus tools
<i>Systems:</i>	Experience working in mixed Windows/Linux, database and virtualized/physical server environments
<i>Programming:</i>	Knowledge of PHP, HTML5, CSS, MySQL, Java

## CERTIFICATION AND TRAINING

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- CompTIA Security+ (Pursuing)
- **FINDS Research Center of Excellence Summer Research Experience in Digital Forensics:** Participated and contributed in a six-week Summer Research training program funded by the Army Research Office *August 5, 2021*