Sana Ullah

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GRADUATE APPLICANT

*With four Years of Experience in **HopeBloom Tutoring Startup** and **STEM**, I am dedicated to transforming technology education at **Innopolis University**. My expertise in educational innovation and leadership uniquely positions me to contribute to information security, Cyber defense, Risk management, Data analytics and big data engineering. I specialize in delivering engaging lessons and activities in Math, Cyber defense, big data, entrepreneurship and programming. Excited to bring my skills to derive innovation in technology education at HSE.*

EDUCATION

1. **NED University of Engineering & Technology Karachi, Sindh Pakistan.** ***Jul 2024***
   BE Computer & Information. Systems Engineering
2. **Nisar Shaheed School & College, Pakistan Air Force Academy Risalpur Cantt, Pakistan.** ***2014-2016***
   Higher Secondary School || Pre-Engineering
3. **Islamia International Model School & College Totakan, Malakand Pakistan.** ***2011-2014***
   Secondary School || Matric-Science

EXPERIENCE

1. CyberSecurity Operation Center Analyst-(SOC-L1) |Jaffer Business Systems, Karachi ***Sep 2024-Ongoing***

*Deployed on deputation basis at K-Electric Elander Complex Karachi**[country Most Advanced Technological Electrical Power Generation Supply Company with a consumer capacity of 3.4M],** in the department of Cyber Security & Risk Management.*

2. Startup Founder (My Biggest Life Achievement): **HopeBloom TechKids Digital Education|** Malakand, Pakistan ***Jun 2020- present***

["With a mission to empower children in remote villages by providing foundational literacy, numeracy, and life skills training.creating a pathway for them to pursue further education and better life opportunities. We are committed to fostering a safe and supportive learning environment where children from marginalized backgrounds—especially girls and those with disabilities—can thrive and achieve their full potentials"].

- **Innovative Digital Learning:** Launched a Village and Town based Tech Tutoring center with an initial Self investment of **$400** focused on empowering rural areas children with technology skills, including **coding, digital literacy, and problem-solving**, fostering a love for **STEM** education, **Programming, web development, Management, Leaderships ,Basic Tech Skills and Entrepreneurship** for kids and teen.
- **Community Impact:** Successfully trained up **to (700) children** from diverse backgrounds, enabling them to gain foundational tech skills and preparing them for the digital age.
- **Technology Integration:** Designed and implemented tech-driven teaching methods using tools **e.g., Scratch,MS Office, Arduino, gamified learning platforms**
- **Collaborative Engagement**: Partnered with local schools, educators, and parents to create a supportive ecosystem for young learners.
- **Social Responsibility:** Advocated for equitable access to technology education, reaching underserved communities through affordable and inclusive programs.

2.Security Operation Center Analyst (Training -3Month)- SuperSecure, Karachi ***Jul-Sep 2024***

- Developed a strong understanding of cybersecurity principles, including threat detection, incident response, and risk management.
- Gained practical knowledge of security frameworks and standards, such as **NIST, ISO 27001, and MITRE ATT&CK.**.
- Acquired skills in network traffic analysis using Wireshark, enhancing the ability to identify suspicious activities.
- Learned about vulnerability assessment techniques and tools to evaluate system weaknesses.
- Engaged in threat intelligence analysis, understanding how to leverage threat feeds and reports to enhance security posture.
- Worked in **24/7** Security Operation Center-(SOC).
- Primarily responsible for security event monitoring, threat intelligence, threat hunting, & response.
- Administration and monitoring of security controls & tools i,e ***QRaddar SIEM, Splunk , FireEye EDR, XDR, WAF,***

CTM360, Microsoft Defender, Verodin and SIRP.

- Ensure incident identification, case management, reporting, communication, and mitigation.
- Responsible for integration of standard and non-standards logs in SIEM.
- Co-ordination with stakeholders, build and maintain positive working relationships with them.
- Perform threat management, threat modelling, identify threat vectors and develop use cases for security monitoring.
- Provide reports, briefings and risks-based recommendations on routine and non-routine cyber security events and incidents including responding to organizational crises.

3.Secuirty Operation Center Analyst(Virtual Intern)-Center for CyberSec & Forensics Solution ***Mar-Apr 2024***

Tasks Assignment; *documentations, Scenarios and in technical aspects*

- Firewalls rules, procedures and purposes in cybersecurity and network engineering
- How to Report risks in a structured approach.
- What is an incident and how to manage it.
- Different levels of data classification and why are they required.
- HIDS vs NIDS.
- Various response codes from a web application.
- What are the objects that should be included in a good penetration testing report.
- ***Opensource tools, Labs Practice Problems***: Wireshark,NMAP, QRaddar SIEM, virus total,URL Scanning,Anyrun,Letsdefends,Tryhackme and hackthebox CFT(Challenge's).

4.Cybersecurity -Internee | National Center for Cybersecurity NED University of Engineering & Technology University, Karachi ***Aug-Oct 2022***

- Document security breaches and assess the damage they cause.
- Review the documentation for policies, procedures, standards, and guidelines such as PCI-DSS
- Research and evaluate applications and services for use by the institution.
- Assistance with the deployment and upkeep of the information security department's website content.
- Use vulnerability assessments tools for specific applications, services, networks and servers as required.
- Assist with applications/tools including but not limited to SIEM, Splunk, Cortex XDR,and Palo Alto Networks tools.

5. CyberSecurity Case Program-PwC | Internship ***Jul 2022***

- Integrated information defence.
- Risk Assessment and Network Segmentation.
- IT Systems Security Baselines.

6.Data Science & Advanced Analytics- Boston Consulting Group-BCG | Internship ***Mar 2022***

- Exploratory data analysis and data Cleanings.
- Modellind and Evaluation,Business understanding and Features engineering.
- Data preparation and customers analytics, hypothesis testing insight and recommendation.

7.Data Analytics-Intern (DetectCovid-19) Department of Computer Engineering, NED University Jan-Apr 2021

- Designed and developed AI Algorithms to detect Covid-19 from the sound of cough of different persons voices.
- Developed a mobile application in order to records the symptoms and verify through AI Model.
- Utilized SQL to query databases, perform data manipulation, and generate reports that informed business initiatives.
- Collaborated with cross-functional teams to identify data needs and align analytics projects with business objectives.
- Designed and maintained interactive dashboards using Tableau and Power BI, providing real-time updates on COVID-19 statistics.
- Cleaned and preprocessed large datasets, ensuring accuracy and consistency for reliable analysis and reporting..
- Assisted in literature reviews and data collection for ongoing research projects related to the social and economic impacts of COVID-19

WORKSHOPS & INTERNATIONAL CONFERENCES

- Industrial Automation and Robotics**- Mindstorm Engineering** .
- AI Summit 2021-Data Engineering In Cloud--**10Pearl.com.**
- AI Summit 2021-Introduction to Data Sets and Kaggle Progression System—**10Pearl.com**.
- Addressing IT Service Management challenges with **ITIL 4**
- 18th international conference on Smart communities: Improving Quality of Life using ICT, I**nternet of Things & AI IEEE HONET 2021**

SKILLS SETS

1.Information/Cyber secuirty:(Hands-On) IBM QRaddar SIEM,Network Monitoring, Phishing, hashing,dark and deep web operation, NMAP, WireShark,FortiEDR, FortiXDR, Splunk, Solarwinds(IDS), VirusTotal, Anyrun,Cisco Packet tracer.

Trend Micro(ApexOne, Deep Security, Email Security,Server & Workload Protection XDR,EDR), **Web Application FirewallF**(Barracuda), **DNS Security**(InfoBlox) **Threat Intelligence** (Group IB, CTM360), **Privileged & Access Management**(Delenia, Centrify), **Network Detection & Response(** FireEye, Vectra), **File Integrity Monitoring**(CimTrack).

2.Businees Intillegence: IBM Cognos, Power BI,Jira , MS Project Management

3.Databases/ERP: Sql,NOSql, MongoDb,MS-Access, SAP,Oracle-developer tool.

4.Big Data/Data Science: Numpy,Pandas,Data integrations,Matplotlib,Cassandra,Apache Airflow,ML,and Time-series Data.

5.Clouds (Hands-On): GCP, AWS EC2, Azure, **VMWare Data Centering & Virtualization, Huawei(Campus Switch, AirEngine,Cloud Engine Server and Data Center Configuration & Deployment)**

CERTIFICATIONS & COURSES

1.BlueTeam Jr SOC L1

2. Google Cybersecurity Certificate(s)

3.IBM Cyber.Sec Specilization Cert's

4.Fortinet Network Security Associate-NSE level 1,2,3 certified

5.Jr Cyber sec Analyst training-Cisco

6.Cyber Sec.Specializations NY University

7.Network Security-Open University UK

8.Security Operation-PaloAlto Network

9.Critical Infra Protection-OPSWAT Academy

10. Big Data Modeling & Management.

11. Big Data Integration & Processing

12.ETL data pipelines with shell airflow and kafka

13. Big Data & ML with Google Cloud platform.

14. Graph Analytics for Big Data.

16. Big Data with Spark and Hadoop.

17. Data Warehousing and BI Analytics.

15. Building Batch data pipelines on GCP.

18 CISSP Short Course Charles Sturt University Australia

19. Introduction to Vulnerability Management.

20. Introduction to Network Analysis.

21. Introduction to Digital Forensics

22. Introduction to Darkweb Operation

23. Introduction to Threat Hunting.

24. Introduction to Open-Source Intelligence.

VOLUNTEER WORK

Resource Person | Green-Society NED University (2021)

It was a capacity-building program for **underprivileged area** where a children had never used computers before**. NED University** selected me and seven members of my team, where we not only taught them how to use computers but also empowered them the skills to sell their **handcrafted items online.**

FUTURE GOALS

- I aspire to pursue a **master or doctoral degree at an international university**. I am to introduce innovative educational programs for poor and unprivileged school children's and support the host **country's progress.**
- Partnerships and collaboration with international schools and Universities.
- Expand into additional countries and achieve a revenue target of **$1 million** within the next five years.
- Empowering children worldwide through the implementation of **K-12 and STEM** innovation programs.
- Maximizing job opportunities and capacity building by offering **IT and AI services.**

HOBBIES

My hobbies and interests reflect my passion for making a difference through technology, education and **community engagement,** particularly in the realm of **Cyber Security, Network and Big Data engineering**, along **business management.** I love exploring innovative ways to teach and mentor young minds, leveraging my experiences at HopeBloom TechKids Digital Education to inspire future **engineers and leaders**. Additionally, I am deeply committed to making a positive impact in my community by organizing events,workshops, and summer camps that empower young learners and foster a love for STEM subjects , aligning with my aspirations in **Cyber Security and Defense Engineering** to derive innovation and excellence in education.

Note: References will be provide upon request.