SANAT SHOURYA

Mob. No.: (814) 441-5952 | E-mail: sanatshourya100@gmail.com | LinkedIn: linkedin.com/in/sanat-shourya-205090238/
Address: 719 Southgate Drive, State College, PA - 16801

EDUCATION

The Pennsylvania State University, University Park   **Pennsylvania, United States**
*Master of Science - Computer Science and Engineering - **3.80/4.00***   *[August, 2023 - May, 2025]*

Vellore Institute of Technology, Vellore   **Tamil Nadu, India**
*Bachelor of Technology - Computer Science and Engineering - **8.62/10.00***   *[May, 2023]*
- **Relevant Coursework:** DSA, OS, DBMS, COA, Programming Languages, Theory of Computation and Compiler Design, Computer Networks and Security, Software Engineering, Advanced Calculus, Applied Numerical Methods

SKILLS

Programming: [Python, C++, MATLAB, R, Cisco Packet Tracer, HTML, CSS, JavaScript, MySQL]
Music (Member of School Orchestra): [Tabla-Player]   *[2013-2018]*
Languages: [English (*Full-Professional Proficiency*), French (*Intermediate Proficiency*), Hindi (*Native*)]

ACHIEVEMENTS & CERTIFICATIONS

- **HackerRank (Online Coding Platform):** Rated 5-Star in Problem Solving, C, C++, SQL, and Certified
- **Winner of Code2Create 5.0,** a Hackathon by ACM (VIT Student Chapter)
- **AWS Certified Cloud Practitioner Exam:** Cleared and scored 820/1000
- **Udemy/Coursera:** The Complete 2023 Web Development Bootcamp, Parallel Programming in Java, Algorithmic Thinking-II
- College/Research work Certifications

RESEARCH WORKS

- ***"Assessing Factors Critical to Intelligent Plant Healthcare Technology"***   *[2022]*
  ACIA-2022 - Organized by NIT, Raipur, published in Scopus-indexed AIP Conference proceedings
  DOI: 10.1063/5.0134880

- ***"Comparative and Preventive Analysis of Dictionary attacks"* - Publication due**   *[2023]*
  ICSTE-23 - Organized by NIT, Manipur, to be published in the form of a Scopus-indexed book series by the Springer
  DOI: 10.1007/978-981-99-4713-3

- ***"Location-Based Analysis of Supply Chain Management Systems in Smart Cities"***   *[2023]*
  A chapter in the book- Data-Driven Mathematical Modelling in Smart Cities, published by IGI-Global
  DOI: 10.4018/978-1-6684-6408-3

PROFESSIONAL EXPERIENCE

Housing and Urban Development Corporation (HUDCO)   **Delhi, India**
[Summer Intern - Cyber Security Analyst]   *[05/2022] - [07/2022]*
- Analyzed and monitored different security devices for threats and vulnerabilities, particularly Proxy, SIEM, and UEBA, and detected incidents using SIEM console, rules, and dashboards.
- Distinguished alerts into 'false-positive' and 'true-positive' to raise the tickets on 'true-positive' alerts and escalated the same for the responsible team as per the given escalation matrix.
- Performed deep analysis at Firewall, Waf-end, logging activities based on risk scores from security tools placed in network.

PROJECTS

TRADE ARENA - MAKE TRADING COMPETITIVE   *[04/2021] - [05/2022]*
- Built a Stock Market and Cryptocurrency Simulator to conduct Competitive Trading Leagues.
- Used Python to Fetch Live Data Feed using exchange APIs and created a Low Latency Trading experience for novice users.
- Traders can play around with demo money and get better prepared before diving into the real markets.

DATA-LEAKAGE DETECTION USING GUILTY MODEL   *[11/2021] - [05/2022]*
- Built an application using PHP to monitor file sharing between distributors and clients and to find, on the off chance, if any data has been leaked by the agents to third parties using Guilty model.
- Used Prob. Distribution to discover the 'guilt' of an agent from the given agent set who leaked the data to other third parties.
- Prepared a comprehensive 'Security Audit Report' based on Vulnerability Assessment and Functionality Testing results.