AMIRITHAVARSHINI GURUPANDIAN

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EDUCATION

California State University, Dominguez Hills (CSUDH)   Carson, CA
Masters' in Cybersecurity, **GPA - 3.9/4.0**   August 2023 - May 2025
Courses: Practical Cybersecurity, Foundation in Information Security and Digital Forensics, Information Security Policies and Procedures, CyberOps and Cloud DevSecOps, Information Assurance and Network Security.

Dr. MGR Educational and Research Insitute   Chennai, IN
B.Tech in Information security and Digital Forensics, **GPA - 8.38/10**   September 2019 - May 2023
Courses: Cyber Criminology and Cybercrime, Fundamentals of Information Security and cryptography, TCP/IP, Fundamentals of Digital Forensics, Advanced Networking, Advanced Digital Forensics VA/PT, Application Security, Database Security, Information Security Audit, Resilience Management, IoT Security and Smart City Security.

EXPERIENCE

RISE Tutor   Compton, CA
CSUDH Toro Tutor   January 2024 - Present
- Tutored a diverse group of 20 middle school students in math, providing support in solving problems, understanding mathematical principles, and preparing for tests and assignments.
- Collaborated with math teachers to align tutoring strategies with the school's math curriculum.
- Monitored and assessed student progress, adapting tutoring methods to address specific areas of difficulty.
- Provided constructive feedback to students and parents, communicating regularly about academic achievements and areas for improvement.
- Utilized creative teaching methods and resources to make math concepts more accessible and engaging for students.

ACADEMIC PROJECTS

Java Unit Testing with JUnit and Enhanced Jenkins Integration | Java, SonarQube, Docker, GitHub, AWS   January 2024 - May 2024
- Developed an advanced Continuous Integration/Continuous Delivery pipeline using Jenkins, automating builds based on GitHub updates and improving team communication with Slack notifications.
- JaCoCo and SonarQube were integrated for better code quality and maintainability.
- Improved deployment with AWS ECS and Docker, achieving a 30% increase in scalability and reliability for cloud deployments.

Case Study on Prospect Medical Holdings Ransomware Attacks   August 2023 - December 2023
- Identified critical vulnerabilities in Prospect Medical's systems, leading to improved security posture.
- Implemented data-driven network segmentation and other measures to mitigate risks and reduce attack surface.
- Developed and implemented comprehensive policies addressing unpatched systems, weak passwords, and inadequate network segmentation based on NIST/CSF frameworks.

EIRA - A Cyberbot | Python, JSON, NLTK   June 2022 - April 2023
- Developed and maintained the Security Knowledge Framework-Chatbot, a specialized chatbot for providing information on vulnerabilities, their descriptions, solutions, and code snippets.
- Built a robust database of 300+ security vulnerability queries, empowering users with swift access to comprehensive threat information and mitigation strategies.
- Assisted users in understanding and addressing security vulnerabilities in various software applications.
- Designed a text-based user interface allowing users to input commands and receive both text and text-to-speech responses.
- "EIRA - A Cyberbot" published in the International Journal of Novel Research and Development.

Case Study on Cyber Attacks in Hotels   June 2021 - April 2022
- Collected and analyzed data related to cyberattacks and their impact on the hospitality industry from 12 star-hotels.
- Evaluated the consequences of cyberattacks, including financial losses, reputational damage, and customer trust issues.
- Conducted comprehensive assessments of hotels' cybersecurity measures, identifying vulnerabilities and implementing industry-best practices; strengthened data protection protocols resulting in a 25% reduction in security incidents.
- Formulated insightful conclusions based on the study findings and provided recommendations for enhancing Formulated data-driven conclusions based on comprehensive study findings, resulting in strategic recommendations that enhanced cybersecurity measures and reduced potential data breaches by 40%.

TECHNICAL SKILLS

Programming Languages: C, C++, Python.
Database and Frameworks: MySQL, Oracle, Nmap, GDPR.
Tools and Platform: Docker, AWS, Splunk, Nmap, VMware, Virtualbox, Net BIOS, Angry IP Scanner, Git, Nessus, Super scan, Virus total, Metasploit, F-RAn, FTK Imager, Recuva Wizard, MXToolBox, Parrot, SQLmap Oracle 10g, Windows, SQL Server Management Studio, Apex, Cisco Packet Tracer, IDLE, Wireshark, Eclipse, Jenkins, Visual Studio Code.

CERTIFICATIONS

- Information Security Management Skills and Information Security Auditing from Center of Excellence in Digital Forensics in May 2022.
- Cloud Security and Cloud Forensics from Center of Excellence in Digital Forensics in December, 2021.
- Advanced Network using CISCO Routers from National Small Industries Corporation Limited from May 2021 to June 2021.
- Cybersecurity and its fundamentals from Udemy Online Learning Platform.
- Security+ certification from CompTIA in November 2023.
- Preparing for Certified Ethical Hacking (CEH) from EC-Council.

ADDITIONAL

- Attended workshop on Cyber Security Essentials With General Data Protection Regulation from Ministry of Micro, Small & Medium Enterprises Technology Development Centre.
- Completed a skill development workshop in website development at Infoziant IT Solutions Private Limited.