ARMAAN SIDHU

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EDUCATION

Concordia University, Montreal, Quebec, Canada   **Sep 2024 – Present**
- Master of Engineering- Information System Security (INSE)

Manipal University Jaipur, Jaipur, Rajasthan, India   **Aug 2020 - Jun 2024**
- Bachelor of Technology- **Computer Science & Engineering** | Minor Specialization- **Cyber Security**
- CGPA: **8.68/10**

TECHNICAL TRAINING & WORK EXPERIENCE

AtlanZ Mobility   **10 Jan 2024 – 10 May 2024**
AI/ML Engineer Intern (Onsite)
- Reduced congestion incidents by 15% by collaborating with the AI/ML team on traffic flow analysis, improving road safety and parking management.
- Improved traffic signal optimization by 20% by contributing to data modeling and real-time analytics, leading to more efficient traffic flow and predictive traffic patterns.
- **Core Competencies**: Research, Problem Solving, Data Analytics, Communication (oral, written)

THECYBERHOST   **25 Aug 2023 – 25 Sep 2023**
Cyber Security Intern (Remote)
- Decreased potential breach risks by 30% by investigating and counteracting common cyber intrusion methods.
- Strengthened cybersecurity framework by 25% by developing comprehensive reports that identified security gaps and proposed remediation, resulting in enhanced protection against potential breaches.
- **Core Competencies**: Cybersecurity Expertise, Problem Solving, Adaptability, Written Communication

SKILLS

Cyber Threat Intelligence | SOC | Malware Analysis | Incident Response | Risk Management | Endpoint Security | Post Incident Activity
Technical Proficiency: Cryptography | Firmware | Azure | Endpoint Security **Languages: Python**
Tools: OpenCTI | Metasploit | Autopsy | Nmap | Nessus | YARA | GitHub | Jira | Looker | Salesforce | ServiceNow | Passenger
Frameworks & Standards: ISO | SOX | MISRA **Operating Systems:** Windows 11 | macOS 15 Sequoia | Kali Linux
Soft Skills: Information Security | Team Player | Organizational Skills | Service Desk | Compliance | Change Management

PUBLICATIONS

AI-Driven Threat Intelligence: Leveraging Machine Learning to Empower Cybersecurity Applications for Enhanced Threat Detection and Response (Archive Link)
- The paper was presented in World Conference for Computing and IT (WCCIT) 2023, in Berlin, Germany, and was selected after a double-blind peer review and was rated as one of the best research papers in the conference, as a reward, the participation fees were waived off. It has been submitted for publication in a journal post successful conference presentation.

Mitigating Advanced Persistent Threats (APTs) in Cybersecurity Through the Implementation of Distributed Ledger Technology: A Detailed Study and Practical Approach to Enhancing Intrusion Resilience (Archive Link)
- Conducted a study on the implementation and performance of DLT in mitigating APTs showcasing its effectiveness in enhancing intrusion resilience and providing a solution to counter APTs in various cybersecurity contexts.

PROJECTS

Face Recognition based Attendance System (GitHub Folder Link)
- Developed an automated system that uses facial recognition technology to accurately identify and record attendance of students in a university.
- The system employs face detection algorithm KNN to locate and detect faces in real time.
- As the faculty can register each student individually in the record, and then scan his face to mark his attendance. The system will automatically store attendances for the day in an excel file inside the Attendance folder.
- Tech stack: Python- OpenCV, Face Recognition, MySQL Database, Flask Web Framework

CERTIFICATIONS & ACCOMPLISHMENTS
- CompTIA Cybersecurity Analyst+ (CS0-003) certified
- CompTIA Security+ (SY0-701) certified
- Ranked in the top 3% (under 45,000) with 15+ badges on TryHackMe
- Dean's List Excellence in Academics Award for highest Grade Point in VII Semester at Manipal University Jaipur
- Scored a perfect 10/10 grade point average in the VIII semester of undergraduate studies at Manipal University Jaipur

LANGUAGE SKILLS

English
- Full working proficiency with the ability to effectively communicate, write, and present in professional settings.
- Achieved an overall score of 8 bands on the IELTS exam, with scores of 9 in Listening, 8.5 in Reading, and 7.5 in both Writing and Speaking. (LinkedIn Post Link)

French
- Elementary proficiency in French with an ongoing commitment to improving language skills through active learning.
- Developing conversational and written proficiency through coursework, practice, and immersive language exposure.