AARON LOBO

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EDUCATION

University of Southern California   **Aug 2023-Present**
Master of Science in Cyber Security Engineering **(GPA 4/4)**

Vidyalankar Institute of Technology   **Aug 2018-June 2022**
Bachelor of Engineering in Computer Engineering **(GPA 9.16/10)**

SKILLS

- **Languages:** Python, C, Bash, PowerShell, Java, HTML, CSS, SQL, KQL, Velocity
- **Software and Tools:** Nessus, Qualys, Bigfix, SailPoint NERM and IIQ, Active Directory, Burp Suite, MS Sentinel, Wireshark, Nmap, Metasploit, Kali Linux, Microsoft Office, DBeaver, Pentaho, SSMS
- **Miscellaneous:** User Provisioning, IAM Engineering, Vulnerability Management, Patching, Penetration Testing, Data Analysis, QA Testing, Threat Modeling

EXPERIENCE

Keck Medicine of USC   **Nov 2023-Present**
Information Security Analyst Intern

- Engineered a **Role-Based Access Control** provisioning process for 2500+ users by developing 9 SailPoint roles and role-assignment rules using Java, **automating access management while maintaining HIPAA compliance**
- Developed MS Sentinel **workbooks to monitor and detect** suspicious identity behavior, including **privileged access log monitoring**, enhancing security visibility, and proactive threat detection
- **Provisioned user access** across multiple applications for approximately 300 users and **efficiently retained** around 939 O365 A5 licenses **resulting in cost savings and preventing disruptions to patient care**
- Led the **testing and validation of nine major IAM workflows,** uncovering and resolving 100+ critical bugs, substantially **improving system performance and reliability**

Manipal Cigna
Senior Executive - Data Warehousing and Business Intelligence   **Aug 2022-Nov 2022**

- Proactively **mitigated risks and prevented fraudulent insurance claims**, safeguarding company assets, by accurately validating and investigating 120 cases
- **Generated 51 critical daily reports** driving precise and data-driven forecasting for strategic decision-making
- **Executed overnight data loading** into ODS and Data Lake, utilizing Apache Pentaho and Microsoft SQL Server ensuring **data consistency and availability** for real-time business operations

Bharti Axa Life Insurance   **Nov 2021-Jan 2022**
Security Analyst Intern

- Performed **vulnerability scans on 18 web applications,** identifying security gaps in 11 unpatched systems, and delivered in-depth reports for critical remediation efforts
- Collaborated with application owners and IT infrastructure team to **mitigate vulnerabilities** enhancing the organization's security posture and **reducing possible risks**
- **Experienced security audits** leading toward the organization's ISO/IEC 27001 certification
- **Hardened an externally facing web application** by penetration testing the login mechanism using Burp following **OWASP Top 10**

PROJECTS

Secure EHR Management System   **May 2024**

- Developed a secure web application for managing Electronic Health Records (EHR), in compliance with HIPAA regulations
- Implemented hash-based authentication and Role-Based Access Control (RBAC), enforcing least privilege access
- Incorporated AES-256 and RSA encryption for data confidentiality in-flight and at-rest and logged all access for audit trails
- Applied SHA-256 integrity checks to detect unauthorized modifications in audit logs and EHR data

Formulation of Security Policies for a Healthcare Organization   **Dec 2023**

- Authored comprehensive policies (including MAC and DAC) and procedures for an organization using third-party applications to analyze Protected Health Information (PHI), ensuring strict adherence to HIPAA regulations
- Ensured HIPAA compliance by integrating standards from the NIST 800-66 framework into organizational policies, safeguarding sensitive health data

PUBLICATIONS

Combating Ransomware (IJEARM) ISSN: 2454-9150 Vol-07, Issue-10, JAN 2022

CERTIFICATIONS

- **Comptia Security+ SY0-701**
- **Qualys Certified Specialist Certification –** Vulnerability Management Detection and Response
- **Qualys Certified Specialist Certification –** CyberSecurity Asset Management
- **Top 2% TryHackMe**, Pre-Security, Introduction to Cybersecurity, Beginner Path, Web Fundamentals path - 160 hours
- Security Blue Team **Network Analysis, Threat Hunting and Vulnerability Management**