

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, Penetration Testing, Data Analysis, QA Testing, Blue Teaming

EXPERIENCE

Keck Medicine of USC

Nov 2023-Present

Information Security Analyst Intern

- **Engineered nine distinct roles for nursing users** and **developed role assignment logic** using BeanShell to automate role-based access provisioning for 2563 eligible user accounts
- **Provisioned user access across multiple applications** for approximately 300 users and **managed Microsoft Office 365 licenses**, efficiently retaining around 939 O365 A5 licenses resulting in cost savings
- **Led the testing and validation of eight major workflows**, uncovering and resolving 90+ critical bugs, substantially improving system performance and reliability
- **Developed HTML and Velocity-based welcome letter templates** for nine different user types and **created template selection rules** using BeanShell, significantly streamlining the onboarding process

Manipal Cigna

Senior Executive - Data Warehousing and Business Intelligence

Aug 2022-Nov 2022

- **Generated 51 critical reports** to meet the data requirements of business users, enabling precise business forecasting
- **Executed overnight data loading** into ODS and Data Lake, utilizing Apache Pentaho and Microsoft SQL Server to ensure data consistency
- **Validated and cross-referenced data for 120 cases** with the database, effectively preventing fraudulent insurance claims

Bharti Axa Life Insurance

Nov 2021-Jan 2022

Security Analyst Intern

- **Experienced security audits** leading toward the organization's ISO/IEC 27001 certification
- **Scanned 18 web applications for vulnerabilities** followed by **creating comprehensive reports** highlighting 11 unpatched applications
- **Collaborated with application owners and IT infrastructure team to mitigate vulnerabilities found** and enhance the organization's security posture

PROJECTS

Secure EHR Management System

May 2024

- Developed a web application for secure access and management of Electronic Health Records (EHR)
- Implemented hash-based authentication and Role-Based Access Control, adhering to the principle of least privilege
- Utilized AES-256 and RSA encryption to ensure data confidentiality during communication and at rest, and logged all access and modifications for robust audit trails
- Implemented SHA-256 hash-based integrity checks on audit logs and EHR data to detect unauthorized modifications
- Stack – Python, HTML, CSS

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: A Look Into The Biggest Ransomware Attack (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**