

# AKHILESH ANAND UNDRALLA

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## EDUCATION

### UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK

**Master of Science, Management Information Systems (ISACA Certified Curricula) - STEM Designated** Feb. 2022

Relevant Courses: IS Auditing (CISA-aligned curriculum), Information Assurance (CISSP-aligned), Digital Forensics, System Analysis & Design, Distributed Computing & Big Data, Database Management Systems, Global IT Infrastructure Mgmt.

### ACHARYA NAGARJUNA UNIVERSITY

**Master of Science, Psychology**, Graduated with First Class Dec. 2019

### INSTITUTE OF PUBLIC ENTERPRISE

**Master of Business Administration, Human Resources and Marketing**, Graduated with First Class Apr. 2019

### UNIVERSITY COLLEGE OF ENGINEERING KAKINADA

**Bachelor of Technology, Civil Engineering**, Graduated with First Class May. 2017

## SYSTEM SECURITY PROJECT

- Designed and executed blue team tabletop exercises by implementing and configuring a series of corporate networks through a virtualized lab environment (vCenter) as part of University at Buffalo Network Defense (UBNetDef) Cyber Security class & club.
- Led installation and configuring different Linux distributions and implemented password policy to users and assigned groups across Web Servers, Database Servers.
- Using Linux Apache MySQL PHP (LAMP) stack, installed Media-Wiki on web server and enforced Network Firewall hardening using pfSense, Palo Alto Firewalls and Host based Firewall management.
- Gained experience building windows server and Windows client operating system with Active Directory accounts (ServerAD). Installation of Internet Information Service (IIS) on ServerGUI and managed users on windows domain.
- Enforced Group Object Policy including PowerShell transcription, background policy across domain computers.
- Analyzed packet flow traffic using Wireshark to conduct network forensics along with network reconnaissance with Nmap and Zenmap.
- Conducted penetration testing and ethical hacking scanning server endpoints and exploiting common system vulnerabilities performing SQL injection and privilege escalation.
- Conducted event log analysis using enterprise grade tool 'Splunk' and determined TTP's threat actors took on the network with real time alerts and correlating different events.
- Conducted vulnerability scans using OpenVAS to monitor a virtualized, sandboxed environment and created vulnerability assessments for each server along with a series of suggested remediating steps.
- Performed system administrative tasks, such as account and data audits, along with the configuration of automated monitoring for events and setting up patching, configuration management, log aggregation.

## TECHNICAL IMPLEMENTATION PROJECT

- Restructured business process requirement framework and Implemented Salesforce Non-Profit Success Pack solution for 'Tapestry', a non-profit charter school with secure RBAC and PBAC IT policies.
- Led the project to suit non-profit's business model and coordinated data migration from legacy system to Salesforce.
- Delivered project based on business use-case, risk register within business requirements following the Agile methodology.
- Gathered and elicited requirements to translate their manual sponsorship and events management into salesforce driven processes.
- Configured users accounts and contacts in line with provisioning policies, data deletion, data processing regulations and built real-time performance reports and dashboard to measure sponsor and partner's efficiency.

## ACADEMIC PAPERS

- Co-wrote a paper titled “Pre and Post Pandemic Adoption of BYOD IT policy, Migration to Public Cloud (PaaS) & Effect on Productivity Tools” explaining measures to secure IT infrastructure and mitigate risks with online-only workflows.
- Co-wrote “A Literature Review on Network Forensic Process” a case study approach by utilizing VPN and associated security tools & devices with suggested measures to guard against network vulnerabilities.
- Critique on “Emerging strategic Technology trends based on Gartner’s hype cycle” using Kipling Method aiming towards security teams and non-technical business executives.

## WORK EXPERIENCE

### UNIVERSITY AT BUFFALO

Buffalo, NY

#### Intern

April 2022–May 2022

- Performed a study that contributes to topic - ‘Network Anomaly Detection Engines – a comprehensive summary of the state- of-the-art’ under Prof. Sanjukta Das Smith, School of Management.

### THE RESEARCH FOUNDATION FOR SUNY

Buffalo, NY

#### Research Aide

Sept. 2021–Jan. 2022

- Developed, hosted, and acted as subject matter expert for ‘Capture the Flag (CTF)’, a security competition platform for UB GenCyber Camp 2022 along with ‘LockDown’, a cyber hacking competition each semester.
- Established a virtualized platform, managed accounts, and developed a catalog of cyber security concepts with content of varying levels of difficulty reinforcing security awareness training among high school students.

### NATIONAL SUN YAT-SEN UNIVERSITY

Kaohsiung, Taiwan

#### Cross Border Summer Consultant

Jun. 2019–Aug. 2019

- Participated in National Sun Yat-Sen University’s Taiwan Experience Education Program 2019 (TEEP@AsiaPlus), funded by the Ministry of Education, Taiwan (ROC), consulting program aimed to train selected international talent.
- Conducted market research and analysis & presented recommendations towards business expansion strategy to senior management for Indian and Canadian Market within 8 weeks for the Taiwanese enterprise CCM Optical Technology Co., Ltd.

### STARTUPBYTE

Hyderabad, India

#### Business Management Intern

Jun. 2018–July. 2018

- Acquired insights of start-up ecosystem and assisted company in giving consultation to ‘NutriHub’ start-up incubator started by Indian Institute of Millets Research.
- Worked with 12 Nutri-cereal Start-ups building business strategy through structured programs, social networking events and regular interaction with senior management for training sessions.

### OIL AND NATURAL GAS LIMITED (ONGC)

Rajahmundry, India

#### Human Resources Intern

May 2018–Jun. 2018

- Conducted a study on workplace performance management through linear regression and correlation models to find important relations and suggested necessary changes to strengthen relation between various HR metrics and KPI’s
- Oversaw both appraisal system of 75 managers and strategic HR operations of ONGC in all departments within 4 weeks to explore effectiveness and adequately bringing out strengths and weaknesses of processes based on analysed data.

## SKILLS

- Internal Audit and Assessments, Policy Design and Implementation, Cloud, Technical Support, Access Control Lists
- Strong with Linux/Unix, Windows, Next-Gen Firewalls, SIEM tools, PenTest tools, Active Directory, VMware
- ISO 27001 & NIST CSF, SOC 2, CIS, COBIT, COSO, Python, SQL, NoSQL, HTML, CSS, Excel, Tableau, PowerBI

## CERTIFICATIONS

- Advanced (Graduate) Certificate in Cybersecurity – National Security Agency (NSA) validated certificate by Center of Excellence in Information Systems Assurance Research and Education (CEISARE) at SUNY Buffalo.
- AWS Certified Developer – Associate acquired in April 2022
- CompTIA Security+ Certificate acquired in November 2021
- Scrum Foundation Professional Certificate acquired in August 2020
- Post-Crisis Leadership Certificate by University of South Florida, Muma College of Business in July 2020