

# Vedang Lad

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College Park, MD (open to relocation anywhere in the US; looking for onsite, hybrid or remote roles)

## PROFESSIONAL EXPERIENCE

### Cybertrust America

August 2024 – Present

Cyber Security Analyst

San Jose, California

- Performed vulnerability assessments on the organization's website using OWASP ZAP, identifying security weaknesses.
- Validated vulnerabilities using Burp Suite, ensuring accuracy by eliminating any false positives.
- Collaborated on generating detailed reports of findings and provided recommendations to mitigate identified vulnerabilities.
- Assisted in developing incident response plans and playbooks, and supported the implementation of IR recommendations.

### Vodafone Intelligent Solutions

August 2020 - July 2022

Senior Executive (ETL Developer)

Pune, India

- Reduced data processing time by 50% for multiple ETL processes through enhancements to existing shell scripts.
- Achieved a 15% improvement in database performance by optimizing SQL queries and PL/SQL procedures.
- Successfully migrated legacy Oracle reports to Qlik Sense, enabling faster access to data insights for better decision-making.
- Conducted thorough code reviews and implemented best practices, leading to a 30% reduction in post-release bugs.

### Orane Labs Private Limited

January 2019 - June 2019

Web Backend Developer Intern

Pune, India

- Developed multiple web features using Python and the Flask Framework, resulting in a 60% increase in user engagement.
- Utilized the Robot Framework for automated website testing, effectively reducing manual testing time.
- Successfully fixed bugs in the website source code, enhancing overall stability.
- Used Git for code management by handling branch creation, merging and conflict resolution for better team collaboration.

## TECHNICAL SKILLS

### Security Tools

: Burp Suite, Wireshark, Nmap, Metasploit, OWASP ZAP, Splunk, GDB, Ghidra

### Programming Languages

: Bash Scripting, Python, JavaScript, C, SQL, PL/SQL, HTML, CSS

### Operating Systems

: Linux, Windows

### Cloud Platforms

: AWS, GCP

### Other Skills/Knowledge of

: MITRE ATT&CK, Scripting, Automation, Git, Microsoft Office, Google AppScript

### Interpersonal Skills

: Quick Learner, Attention to Detail, Troubleshooting, Problem-solving, Team Collaboration

## CERTIFICATIONS

- CompTIA Security+, *CompTIA*
- Practical Ethical Hacking, *TCM Security*
- Certified in Cybersecurity (CC), *ISC2*
- Certified Penetration Testing Specialist (CPTS), *HackTheBox (In-progress)*

## EDUCATION

### Master of Engineering in Cybersecurity

August 2022 - May 2024

University of Maryland

College Park, Maryland

### Bachelor of Technology in Information Technology

July 2016 - May 2020

Symbiosis Institute of Technology

Pune, India

## PROJECTS

### HackTheBox (HTB) Penetration Testing Reports | *Penetration Testing, Pentest Reporting, Kali Linux, Git, Windows, Linux*

- Conducted black-box penetration testing on HTB machines (Linux/Windows), simulating real-world attack scenarios.
- Performed reconnaissance, enumeration, exploitation, pivoting, privilege escalation using various security tools.
- Identified and exploited various vulnerabilities, misconfigurations, and learned how to mitigate them.
- Summarized all findings in a professional penetration test report, which included suggestions on remediating them.

### Network Security Assessment | *Penetration Testing, Vulnerability Assessment Report, Active Directory, Kali Linux*

- Conducted a comprehensive network security assessment within a dynamic Active Directory environment.
- Utilized a diverse range of penetration testing tools to pinpoint and exploit critical vulnerabilities.
- Crafted a thorough penetration testing report consolidating network enumeration and vulnerability exploitation findings.
- Recommended measures that bolstered security resilience and risk mitigation within the network infrastructure.

### Digital Forensics: Investigating Anomalous Incidents | *Autopsy, Wireshark, Python, Malware Analysis, Digital Forensics*

- Conducted in-depth forensics assessment on a malware affected machine using Autopsy and Wireshark.
- Performed detailed log collection and analysis of encoded network communications and user activities.
- Prepared a concise, detailed forensic report summarizing findings, methodologies, and mitigation recommendations.

### Data Acquisition Using IoT Sensors for Smart Manufacturing Domain | *Scripting, Automation, Google Cloud Platform*

- Implemented a real-time data acquisition system using Raspberry Pi to enable predictive maintenance capabilities.
- Developed Python and Bash scripts to achieve automated sensor data collection and aggregation.
- Implemented seamless upload of collected data to Google Cloud for storage and analysis.
- Published project findings in IICT-2020 conference proceedings. [[Research Paper](#)]