

Prudhvi Varma

BSc (Hons) Computer Science (Cyber Security) | prudhvivarma31@gmail.com | (050)-7699213

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EDUCATION

Heriot Watt University

Dubai, UAE

BSc (Hons) Computer Science

- **Concentrations:** Cyber Security
- **Grade:** A (First Class Honors), Deputy Principal Awardee
- **Related Coursework:** Computer Network Security | Data Mining & Machine Learning | Database Management Systems | Operating Systems & Concurrency | Data Communications & Networking | AI & Intelligent Agents

EXPERIENCE

MCN – MIDDLE EAST COMMUNICATION NETWORKS

Dubai, UAE

IT Intern

April 2025- Present

- Improved weekly compliance reporting by curating security dashboards, rebuilding/replacing RAID arrays, patching servers via KVMs, managing data inventory, and performing network cable patching.
- Strengthened identity and access management by migrating 500+ devices to Azure Entra ID, administering user access controls, securing HRMS-AD data flows with redesigned API scripts, collecting crash and Sentinel One logs for critical SQL Server incidents, and coordinating with SecOps and the CISO office for analysis, escalation, and resolution.
- Increased patch compliance and reduced manual effort by automating Ivanti scripts/packages to detect and remediate 200 failing machines out of 1,400 during auto patching cycles.

GREENHOUSE FOODSTUFF TRADING LLC

Dubai, UAE

IT Intern

January 2025- May 2025

- Ensured system reliability, secure access management, and data integrity by administering Windows Server infrastructure (Active Directory, Exchange Server, DHCP) and managing Microsoft 365 Online services, along with Laserfiche migrations, database accuracy, and business reporting.
- Reduced downtime and improved user productivity by delivering frontline technical support, troubleshooting hardware, software, Microsoft 365 Online applications, and network issues with timely resolution.

URBIZASSIST

Dubai, UAE

AI & IT Intern

December 2024- Feb 2025

- Implemented AI-driven chatbots and JavaScript components, boosting platform engagement by 20% and reducing task completion time by 25%.
- Redesigned website UI/UX, improving user experience, retention, and navigation through intuitive design.

PROJECTS

Adaptive User Identification Through Wi-Fi CSI and Deep Learning

Final Year Thesis

- Developing an intelligent Intrusion Detection System for Cyber-Physical Systems using Wi-Fi Channel State Information and ML, implementing a Variational Autoencoder to improve real-time threat detection accuracy by 30%.

AWS Cloud Monitoring

- Engineered an AWS monitoring solution with CloudTrail, EventBridge, and SNS to detect critical root user actions, while securing EC2 instances and enforcing logging policies to enhance compliance, auditing, and incident response.

Public Key Encryption and Firewall Management System

- Engineered a rule-based firewall system with IP-based access control, enabling dynamic rule addition, removal, and filtering to strengthen network security, and implemented a super-increasing sequence-based public-key encryption system for secure key generation, encryption, and decryption

Penetration Testing Web Applications using Burp Suite and DVWA

- Conducted comprehensive penetration tests on DVWA targeting key OWASP vulnerabilities (CSRF, XSS, SQL Injection, Brute Force) in a controlled lab using Kali Linux and Ubuntu VMs, leveraging Burp Suite tools (Proxy, Repeater, Intruder) to intercept, manipulate, and automate attack payloads, demonstrating effective testing methodologies and recommending mitigation strategies.

Job Simulations

- Conducted advanced vulnerability research and threat analysis in simulations with **AIG, ANZ, Mastercard, and Telstra**, including zero-day Log4j exploits, risk assessments, and enterprise security management.
- Developed Python-based tools and applied security frameworks to detect, analyze, and mitigate simulated cyber threats, enhancing incident response and system resilience.
- Executed penetration testing, threat modeling, and remediation planning in controlled environments, demonstrating practical application of industry-standard cybersecurity methodologies.

SKILLS

Programming: Python, JavaScript, Java HTML/CSS, SQL.

Tools: Wireshark, Git & GitHub, Metasploit, Azure, BurpSuite, Splunk.

ACHIEVEMENTS

Cyber Security Fundamentals -IBM Skills Build Certification

SOC Analyst Training with Hands-on to SIEM from Scratch -Udemy

REDTEAM Cyber Hack CTF @ Heriot Watt University

3rd Place Winner - Feb 2025

Zayed University x Exploiters CTF

1st Place Qualifier - Feb 2025

ISC2 Certified in Cybersecurity (CC)

Intro to Splunk – Splunk Step

Introduction to Splunk SOAR- Splunk Step

Security Operations and the Defense Analyst- Splunk Step

The Art of Investigation – Splunk Step

Pursuing BTL1 – Blue Team Level 1 Certification