KIANA KIASHEMSHAKI

Sacramento, California Portfolio Link

Tel: (415)-696-0546 Email: Kianakia399@gmail.com Linkedin: https://www.linkedin.com/in/kianakiashemshaki Website: Kiana-kia.com

Education

Bowling Green State University (BGSU), Master of Computer Science, Cybersecurity | GPA **3.8/4** **Aug 2023- May 2025**

Relevant courses: Design and Analysis of Algorithms, Computer Systems Security, Secure Software Engineering, AI for Software Engineering, Computer and Mobile Forensics, Network Security and Forensics.
Network Architecture & Applications **(TA),** Parallel Computing **(TA)**, Operating Systems **(TA)**.
Awarded Best Graduate Teaching Assistant (Spring 2025)

Azad University (IAU), Bachelor's in Software Engineering, GPA **3.9/4** **Sep 2015- Apr 2019**

Experience

Graduate Teaching Assistant, Bowling Green State University **Aug 2023- May 2025**

- Facilitate study sessions and labs for undergraduate students in "Operating Systems" and " Network Architecture & Applications ".
- Graded assignments and quizzes in C/C++ programming using Linux-based environments and providing constructive feedback to students.

Software Engineer, Green Host **Jun 2021- Jul 2022**

- Developed and maintained user interface components using HTML, CSS, JavaScript, and React to enhance dashboard functionality.
- Designed and integrated backend APIs with Node.js and Express.js for efficient data handling and processing.
- Managed and optimized relational databases, improving performance and scalability.
- Collaborated cross-functionally with support and QA teams to resolve bugs and enhance deployment workflows.

IT Support, Green Host **Jan 2020- Jun 2021**

- Administered and maintained Linux/Windows infrastructure, improving uptime and security posture.
- Troubleshot and resolved network issues, reducing average downtime by 30%.
- Supported 100+ users; implemented ticketing and response best practices.
- Trained new hires on IT protocols and endpoint security hygiene.

Academic projects

SIEM & Log Analysis with Splunk

- Created custom dashboards and alert rules to detect brute-force login attempts using Windows Event Logs.
- Simulated attacks to test detection accuracy and validate SIEM response workflows.
- Used Splunk queries to extract patterns from logs and highlight anomalies.

Hard Disk Encryption Analysis

- Decrypted a LUKS-encrypted Linux partition using memory dump and offset analysis.
- Verified filesystem integrity post-decryption and recovered files using Autopsy.
- Demonstrated risks of poor shutdown handling in disk encryption setups.

Developing Hands-On Modules on Digital Forensics for Future Students

- Designed practical educational modules on digital forensics investigations for beginner students.
- Topics covered include hard disk forensics, memory forensics, and Android phone forensics.
- Aimed to make digital forensics concepts accessible and engaging.

TryHackMe Red & Blue Team Labs

- Completed guided labs covering XSS, SQLi, privilege escalation, and log review.
- Practiced reconnaissance, exploitation, and defense techniques in isolated environments.

Web App Vulnerability Testing – OWASP Juice Shop

- Identified and exploited web vulnerabilities including XSS, SQL injection, and IDOR.
- Used OWASP ZAP and Burp Suite to analyze traffic, map attack surfaces, and generate reports.
- Practiced reporting vulnerabilities with mitigation suggestions.

Skills

Security Tools: Splunk, Wireshark, Nmap, Burp Suite, OWASP ZAP, Autopsy, Nessus, Metasploit

Security Concepts: Vulnerability Scanning, Threat Detection, SIEM, CIA Triad, Incident Response, Log Analysis

Systems: Windows Server, Linux (Kali, Ubuntu)

Networking: TCP/IP, DNS, VPN, Firewalls, OSI Model

Programming & Scripting: Python, Bash

Tools & Platforms: Docker, AWS (EC2, S3, RDS), Git, GitHub

Awards & Involvement

- **2nd Place,** BGSU ACM Hackathon (2025) – Built a mental health alert app "Piqniq" in a 24-hour team challenge.
- **Participant,** OCRI Statewide CTF (2025) – Solved real-world threat scenarios with team collaboration.
- **Research Assistant**, BGSU (2025–Present) – Supporting digital forensics research and experimentation.
- **Volunteer Pen Tester**, **Secure Signals Project:** Tested OWASP Top 10 vulnerabilities and wrote issue reports.

Publications

- Comparing LNK File and Jump List Artifacts on Windows 11 with those on Windows 10 **under preparation**
- Breakthroughs in Brain Tumor Detection: Leveraging Deep Learning and Transfer Learning for MRI-Based Classification **under preparation**

Certificate

CompTIA Security+ (in progress)
AWS Cloud Practitioner, (Certified via Udemy)

Ethical Hacking, (Certified via Udemy)
Technical Support, (Certified via Google)
TryHackMe: Pre-Security, Jr Penetration Tester Path.