HAMZEH EMREISH

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EDUCATION

CUNY-Lehman College | Bronx, NY | B.S. Computer Science | Expected May 2026 | GPA: 3.4
Coursework: Data Structures, Full Stack Web Dev, Discrete Math, AI/ML, Robotics

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TECHNICAL SKILLS

- **Security Tools & Testing:** Burp Suite, SNORT, Splunk, Wireshark, Nmap, Nikto, FFUF, gobuster, subfinder, Ghidra
- **Programming & Scripting:** Python, JavaScript, Bash, Java; REST API development; automation scripts for security testing
- **Web Development:** React, Node.js, Express.js, PostgreSQL, HTML/CSS, Vite; full-stack application deployment
- **Networking & Infrastructure:** TCP/IP, DNS, Active Directory, Group Policy, RDP/VNC, SSH, Tailscale; remote monitoring and system administration
- **Virtualization & Containers:** Proxmox, Docker, VMware, VirtualBox, Hyper-V, VPS
- **Reverse Engineering:** Ghidra + Cheat engine, Binary/hex analysis, proprietary file format documentation, struct-based parsing, Blender Python API

EXPERIENCE

Bug Bounty Hunter *HackerOne / Bugcrowd — Jan 2024 – Present*

- Identified unauthenticated mail relay vulnerability (**Medium severity, triaged valid**) enabling email spoofing with valid DKIM/SPF signatures; provided CVSS analysis and remediation guidance
- Discovered hardcoded API credentials (CWE-798) exposing production endpoints (**High-severity**, triaged as duplicate)
- Found admin user enumeration via Cognito ForgotPassword API (**High-severity**, triaged as duplicate)

Equinox - Manager on Duty (MOD) | Scarsdale, NY — *Nov 2023 – Present*

Promoted from Front Desk Associate; previously at Mamaroneck location

- Oversee daily club operations during manager absences, ensuring member safety, staff coordination, and facility standards across all departments.
- Trained and onboarded 10+ new team members on front desk systems, member services protocols, and club policies.
- CPR/AED certified; emergency response ready.
- Worked at Hudson Yards and Printing House flagship locations; recognized by HQ.

Yonkers Car Wash — *Website & Management System* | 975 Midland Ave, Yonkers, NY — *May 2025 – Present*

- Developed and supported the **full-stack membership and billing website**, integrating member management, customer inquiries, and remote monitoring of car-wash systems via RDP/VNC through Tailscale.
- Managed **ICS infrastructure**, database, billing automation; increased renewals 35%.
- Supervised and **trained a 15-person team**, monitored cash registers and site operations remotely, and quickly mastered troubleshooting across all car wash systems.

PROJECTS AND ENGAGEMENTS

- **MCP Kali Server (Dec 2024):** Contributed to open-source pentesting framework (PR #5 merged to TriV3/MCP-Kali-Server); added 12 recon tools (subfinder, nuclei, httpx, arjun, fierce, byp4xx, subzy, assetfinder, waybackurls, Shodan), SSH session management with file transfer, and reverse shell handlers. **GitHub:** github.com/TriV3/MCP-Kali-Server/pull/5
- **Burp Suite Automation API (Nov 2024):** Developed a Python extension exposing Burp Suite control via REST API for automated AI security testing. **GitHub:** github.com/sh4faq/burp-suite-api
- **Flash MMO Protocol RE (Jan 2025):** Analyzed multiplayer game security through network interception (Wireshark), memory inspection (Cheat Engine), SWF decompilation (JPEXS → ActionScript source), and binary analysis (Ghidra for DLL inspection); reverse-engineered SmartFoxServer XML/CDATA/JSON protocol; identified client-side anti-cheat bypass (MD5 + hardcoded salt); documented Electron + Pepper Flash architecture
- **Game Asset Reverse Engineering Toolkit (Dec 2024):** Reverse-engineered (Red Alert 2) VXL/HVA/MIX binary formats ; created Blender addon for 3D-to-voxel export.
- **CodePath Blue Team (Oct 2024):** NGINX rate-limiting, SNORT IDS, Splunk/Wireshark analysis.
- **Full-Stack Merchant System (Nov 2024):** Deployed PERN stack app with CRUD, search/sort, dark mode. Live: full-stack-pern-app.vercel.app

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CERTIFICATIONS

- CompTIA Security+ SY0-701 — *Accomplished July 29, 2024*
- Google Cybersecurity Certificate — *Accomplished Aug 5, 2024*
- CodePath: Intermediate Cybersecurity & Python Programming — *Accomplished Oct 15, 2024*