Nathan Melwani

California   natem135.com

EDUCATION

Bachelor of Science, Computer Science, University of California Riverside, GPA: 3.9/4.0   **Sep 2020 — Mar 2024**

TECHNICAL SKILLS AND CERTIFICATIONS

Programming/Scripting   Python, C++, Javascript, Java, SQL, Bash
Technologies   Git, MongoDB, Linux, Docker
Certifications   CompTIA Fundamentals, Fundamentals+, A+, Network+, Security+. Cisco CCNA

EXPERIENCE

STEP Intern   **Jun 2022 — Sept 2022**
Google   Mountain View, CA
- Analyzed codebase to discover bugs and implement fixes in C++ for Fuchsia's mDNS stack.
- Utilized Apple's Bonjour Conformance Test to discover bugs in Fuchsia's mDNS stack.
- Designed and developed an extensible internal tool in Python to test devices for RFC 6762 Conformance.
- Constructed design and code documentation for developed tool, creating accessible resources for employees to reference.

Information Security Intern   **Jun 2021 — Sept 2021**
CalAmp   Irvine, CA
- Closely collaborated with product teams to improve product security by conducting in-depth code reviews to identify vulnerabilities.
- Identified and remediated 10+ critical vulnerabilities in company infrastructure using Rapid7 and Crowdstrike tools.
- Developed python scripts to automate user access control checks and perform phishing tests across company infrastructure.

Software Engineer Intern   **Jun 2019 — Aug 2019**
Evara VR   Costa Mesa, CA
- Developed interactive virtual reality programs using C to improve real-estate tour experience on the Oculus Go
- Ported virtual environments made for the Oculus Go for use with the Oculus Rift and Oculus Rift S headsets.

ACTIVITIES

Cyber@UCR President   **April 2022 — Current**
- President of UCR's cybersecurity club. Captain of the CCDC (Collegaite Cyber Defense Competition), CPTC (Collegiate Penetration Testing), Hivestorm, ISTS (Information Security Talent Search), Lockdown teams.
- Developed several perl, bash, and python scripts for competition use.
- Lead multiple weekly team practices. Lead computer security and professional development workshops.

CitrusHack Web Development Lead   **June 2022 — Current**
- Leading development of websites for two annual hackathons (Cutie/Citrus Hack), with an expected userbase of 1000+ people.
- Leading a committee of 15 students by teaching webdev fundamentals, assigning tasks, and conducting code reviews.
- Designed and implemented the backend of the sites with typescript allowing users to register accounts and form groups

Association for Computing Machinery (ACM)@UCR Technical Workshop Officer   **March 2021 — June 2022**
- Developed and held workshops on docker, linux fundamentals, backend web development, and computer security competitions.

PROJECTS

Zeta https://github.com/NateM135/zeta
- Created, maintain, and regularly update a general purpose Discord bot written in Python utilizing discord.py and MongoDB.
- Utilized by 1,000,000+ people in 1350+ Discord Servers.

Citrus (Hackathon Winner) https://github.com/AnthonyH45/Citrus-SIEM
- Web application written with Go and React that provides real-time machine monitoring to easily determine uptime, active network connections, and OS information.
- Designed forwarders (Bash/Powershell) to collect and forward data, an indexer/api (Go) to recieve and parse data.

COMPETITIONS & AWARDS & HONORS

2022
- UIUCTF 5th/395, UMDCTF 5/552, CitrusHack 2nd Place, RoseHack 3rd Place, WRCCDC 4th Place, Lockdown 1st/12 Universities

2021
- UC Riverside Club Member of the Year, SANS Cyber FastTrack 2nd/2000+ Students, CipherTech Forensics 4th/350+, picoCTF 14/6215
- Western Region CCDC 3rd/20 Universities, Collegeiate Penetration Testing Competition International Finalist, ISTS 2nd/10 Schools

2020
- National Cyber League (NCL) Collegiate Team CTF: 1st/978 Teams