

Jorge Garcia

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EDUCATION

University of Nevada Las Vegas
Bachelor of Science in Computer Science

Las Vegas, NV
May 2021

La Salle University
Bachelor of Business Administration

Mexico
May 2012

EXPERIENCE

Undergraduate Research Assistant
UNLV

June 2020 – Present
Las Vegas, NV

- Currently researching Optical Character Recognition and developing a plugin to read, parse, and analyze data on a webapp.
- Developed a social distancing detector using Deep Learning, OpenCV, and YOLOv3. Paper published by UNLV.
- Developed a polaroid filter extraction application using Conditional Adversarial Networks and OpenCV. Paper published by ITNG.

Information Technology Specialist
UNLV

Oct. 2019 – Present
Las Vegas, NV

- Maintain and monitor workstations, labs, student-facing servers, faculty-facing servers, and networks for the Dept. of Computer Science.
- Assess and troubleshoot computer problems brought by students, faculty and staff.
- Develop new web-apps for monitoring and logging and automate processes and procedures.
- Monitor internal subnet for intrusions and develop documentation and procedures for incident response.
- Implemented an internal inventory system web-app - *python, flask, PSQL*

Intern

March 2021– Present
Remote

Maryland Innovation and Security Institute

- Intern for the *Cyber Education Diversity Cybership*
- Build skills in network and log analysis at a Security Operations Center *SOC*
- Complete the Cybersecurity Maturity Model Certification *CMMC*

Officer

May 2019 – Present
Las Vegas, NV

Layer Zero Cybersecurity Club

- Developed and hardened a VM to host an instance of OWASP's Security Shepherd web-app to develop cybersecurity skills.
- Manage and post on the club's website and blog.
- Publish write-ups to CTF exercises.
- Organize cybersecurity conferences and trainings for the club.
- Train new members on introductory subjects to cybersecurity, linux, and networking.

Volunteer

Feb. 2021 - Present
Las Vegas, NV

Cimarron Memorial High School

- Mentor High School students from their cybersecurity club.
- Teach basics and introductory cybersecurity terminology and concepts.

Volunteer

May 2019 – March 2020
Las Vegas, NV

OWASP

- Volunteer setting up quarterly meetings and cybersecurity conferences.
- Attend cybersecurity conferences to promote OWASP.

PROJECTS

Flix | *Swift, UIKit, CocoaPods, web API,*

June 2020 – Present

- Developing an iOS app to parse an API to list most recent and coming-soon movies.
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Home-Lab | *Internal DNS, VPN, DHCP, virtual pfSense routers, puppet CMS, Wireless APs* March 2020 -Present

- Built my own home-lab and network to practice cybersecurity concepts securely.
- Set up multiple virtual networks to isolate devices.
- Manage my local PKI with a root CA to sign on my internal web-apps for testing.
- Unbound DNS, DHCP, and VPN handled by different vms.
- Hosting my instance of OWASP Security Shepherd and FacebookCTF.
- Practice concepts like network analysis with Wireshark, wireless AP wpa/wpa attacks, MITM attacks, system hardening

TECHNICAL SKILLS

Languages: Swift, Bash, Java, Python, SQL, JavaScript, HTML/CSS

Frameworks: SwiftUI, UIKit, CocoaPods

Developer Tools: Git, Docker, ELK stack, Puppet Technologies, Ovirt Virtualization Manager, Proxmox, Active Directory, AWS, AZURE, Google Cloud Platform, multiple linux distributions, Wireshark, Nagios Monitoring

Libraries: pandas, NumPy, Matplotlib, OpenCV, Tesseract, YOLOv3

CERTIFICATIONS & RELEVANT COURSES

Active Countermeasures: Threat Hunting

Google - Coursera: Technical Fundamentals, Python and OS', Config. Management and the Cloud

CodePath: iOS Development

CodePath: Cybersecurity

NASA - Desert Research Institute: Cybersecurity Bootcamp

UNLV - Graduate School: Digital Forensics