# Jonathan Vargas
Cyber Security Analyst

## BASIC INFO

**Address**
San Antonio, TX

**Phone Number**
(210) 550 - 6119

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VargasPortfolio.github.io

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vargasjvargas@pm.me

## CERTIFICATIONS

**OSCP**
Offensive Security — January 2021

**Security+**
CompTIA — August 2020

## TECHNICAL PROFICIENCIES

Web Application Security

Network Security

Digital Forensics

Docker Container Management

Reverse Engineering

Exploit Development

Vulnerability Assessment Reporting

Object-Oriented Programming

Active Directory

Systems Administration

## SOFT SKILLS

| | |
|---|---|
| Collaboration | Public Speaking |
| Presentation | Motivating |
| Leadership | Innovative |

## AWARDS

**Top 5% of CTF Teams**
Hack The Box Cyber Apocalypse — April 2021

Led a CTF team comprising of nine other security enthusiasts from around the world. Our team ranked in the top 5% of participating teams by effectively tackling a series of cyber security challenges during the Cyber Apocalypse CTF.

## PROFESSIONAL SUMMARY

Problem-solving penetration tester and information systems analyst certified in **Security+** and **OSCP**. Authored various network security methodologies and developed results driven automated software with SQL and Java. Committed to leading the next generation of cyber security professionals.

## EDUCATION

**The University of Texas at San Antonio** (August 2017 - May 2021)
**BBA -** Cyber Security — 3.72 GPA

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**BBA -** Information Systems — 3.72 GPA

## EXPERIENCE

**Cyber Security CTF Organizer** (August 2020 - August 2020)
Self-Hosted

- Executed an open capture-the-flag competition for members of the Try Hack Me and Hack The Box ethical hacking communities. Two teams of five members were tasked with exploiting a remote server, gaining access, then establishing tighter security controls in order for the opposing team to fail at breaching entry.
- Assembled a collection of three exploitable machines containing vulnerabilities in line with the Open Web Application Security Project's (OWASP) top ten security risks.
- Researched real-world security compromising incidents and integrated recent exploits into the competition's vulnerable machines.

**SQL Developer** (February 2020 - August 2020)
Ward North American

- Optimized MS SQL reporting scripts for lower data retrieval latency
- Debugged live SQL reports for database inconsistencies.
- Collaborated with various department managers to build new tables and reports that fit the department's requirements.
- Write over 5,000 lines of code monthly to adjust for the company's changing data management practices.

**President** (May 2019 - May 2020)
UTSA Swing Dance Society

- Headed a student-led organization to preserve the social dance and culture of the swing jazz era
- Orchestrated weekly dance instruction
- Cultivated a Board of Executives
- Partnered with community and intercollegiate organizations

**IT Intern** (March 2019 - February 2020)
Ward North American

- Spearheaded the development of aggregation software to understand sales trends
- Developed two complex SQL and JDBC algorithms to fully automate corporate budget analysis
- Inspired the prototyping of Ward University: a learning management system for small corporations
- Collaborated closely with cloud service provider to ensure network reliability
- Offered expert IT troubleshooting and consultation for software and hardware solutions
- Gained experience using Wireshark to monitor network activity and identify network issues
- Developed automated emails to be sent out to customers and agents

**Cyber Security Intern** (July 2017 - March 2018)
Alamo City Engineering Services

- Acquired industry hands-on open source intelligence experience through utilizing deep web data crawling APIs
- Collaborated with a team to delegate tasks and develop strategies to implement information system automation software

## PROJECTS

**Penetration Testing Blog** (June 2020 - June 2021)
https://vargasportfolio.github.io

Developed a simple online CV detailing my past penetration testing engagements, cyber attack methodologies, and CTF writeups.

**Self-Hosted Cloud Solutions** (June 2021 - June 2021)

Researched the benefits and utility of virtualized micro-services in order to deploy a network of Docker containers for remote file system management. By configuring Docker volumes, networks, images, and containers using Portainer, I was able to effectively host my own Nextcloud storage platform from a home lab.

**Cyber Apocalypse CTF** (April 2021 - April 2021)
https://www.hackthebox.eu/cyber-apocalypse-ctf-2021

Organized a global team of ten cyber security enthusiasts to participate in Hack The Box's Cyber Apocalypse CTF. By rotating shifts, we were able to tackle dozens of security challenges for 24 hours each day for five days. As a result, the team ranked in the top 5% of teams out of 4,740 worldwide

**Aero CTF** (February 2021 - February 2021)
https://ctftime.org/event/1224

First team-based CTF experience in cracking real-world cyber security puzzles in a Jeopardy-style format. Exposed to diverse methodologies for handling digital forensics incidents, network vulnerability assessment, reverse engineering, and web application security flaws