

# STEPHEN CHAVEZ | Red Team Software Engineer

An ethical-minded security software engineering leader with 8+ years of experience in full-stack development, medical device security, compliance, security, and defense. Motivated to solve complex problems, Chavez excels at high-risk decision-making, developing POCs (proof of concepts), and using leading-edge technology to help advance research for the United States Department of Defense and private-sector cybersecurity companies.

## Qualifications/ Skills

- > DevOps Engineer
- > Full-Stack Developer
- > Overall OWASP 10 Knowledge
- > Public Speaker
- > Blockchain & Cryptocurrency Specialist
- > Red Team/Purple Team Tactics

## Professional Accomplishments

3Mera (XR Goods Company) | **Director of Software Engineering & Security - CISO**

### August 2023 - Present

As the Director of Software and Security at 3MERA, I lead software development efforts, ensuring high-quality deliverables that align with our business objectives. I am responsible for developing and implementing robust security policies and protocols to safeguard sensitive data and intellectual property. Additionally, I drive platform optimization initiatives, enhancing performance and usability through strategic enhancements and automation

- I have been able to reduce the time to deployment and complexity by 75% and build costs by 50% on average by including many easy-to-use marketing integrations.
- Lead software development efforts, ensuring high-quality deliverables aligned with business objectives.
  - Develop and implement robust security policies and protocols to safeguard sensitive data and intellectual property.
  - Optimize platform performance and usability through strategic enhancements and automation initiatives.
  - Manage and mentor a team of software developers, fostering a culture of collaboration and excellence.

Start9 Labs | **Part Time Rust Software Engineer**

### July 2022 - Nov 2022

Start9 is a Denver based startup that is creating their entirely own operating system in the Rust computer language. They call it StartOS, it is open-source and runs on ARM and intel-based computers thus far. The OS does not use your traditional GUI, but it uses a PWA to be controlled over LAN or TOR. The OS is designed to be used in a server-style fashion. To help anyone including grandparents to self-host services at home and be their own Youtube or web host or anything that can run in a docker container.

- Re-implemented a custom web server that supported proxying into the OS, instead of relying on Nginx, to help with complexity and speed.
- Provide bug fixes as needed in the codebase
- Handle project-based tasks.

TechSlayers LLC | **CSO/Rust Software Engineer**

**July 2020 - August 2022**

- Directly responsible for all security projects related to TechSlayers.
- Oversees security operations for our domestic and international systems.
- Oversees special projects that require Top Secret clearance.
- Handle 20,000 partner and company integrations with strict standards
- The main programmer and lead designer for our flagship product: Loki.
- Provide support to the Board of Directors
- Provide security training for our employees.

Department of Defense - OSUIT Cyber Team | **Software Engineer/Instructor**

**Jan 2020 - June 2020**

- Prepare 300+ organizations to qualify to work with the United States Department of Defense, by utilizing the newest cyber-security technology.
- Created systems that leverage the same technology used by subversive attackers to identify and secure vulnerabilities.
- Built supplement PowerPoint that taught best business security practices to C-level executives.
- Developed new technologies to catch criminals online

Risktronics | **Chief Information Security Officer**

**June 2019 - December 2022**

- Managed cybercrime investigations, red team and blue team attack in the EU, Africa, and other countries.
- Advise CEOS/CSOS on the latest security concerns.
- Built relationships with automotive companies and country governments

Bitlantis City LLC | **Freelance Software Engineer and Security Researcher**

**May 2016 - Present**

- Web work using web technologies like React, NodeJS, and more
- Arduino work for LED projects
- Research on blockchain technology and run a local group on blockchain.
- I run CTFs and create them for friends to hack on. This allows us to use tools like: Wireshark, Kali Linux, Metasploit, and IDA pro

## CVEs

CVE-2022-27226 — Cross Site Request Forgery to Remote Code Execution in iRZ Mobile Routers  
<https://github.com/SakuraSamuraii/ez-iRZ>

## Education

<b>Metro State University of Denver</b> - BSC in Computer Science, Minor in Math - Denver, CO	2011 - 2016
<b>CryptoCurrency Certification Consortium (C4)</b>   Certified Bitcoin Professional - CBP	2019
<b>Udacity</b> - Mobile Web Specialist Nanodegree	2018
<b>SecureSet</b>   SecureSet - SecureSet Class Wargames 2018 - Denver, CO	2018

## Honors and Awards

Active Top Secret Clearance - DOD	2021
Best Presentation, Kaspersky - St. Maarten	2017
Featured, GeekPWN 2016: Hall of Fame - Shanghai, China	2016
Featured, Forbes Article: Controlling Hacked Wheelchair with an Xbox Controller	2016
Member, IEEE P2733; - IEEE, International (Clinical IoT)	2016
Board Member, Solid State Depot Hackerspace - Boulder, CO	2016
Finalist Scholar, Daniels Fund - Denver, CO	2011
Metropolitan Mayors and Commissioners Youth Award, Denver City - Denver, CO	2011

## Speaking Engagements

DEFCON 24 (Hacker Conference) - The Only Way to Hack, and IoT Village - Las Vegas, NV	2016
GeekPWN 2016 (Reverse Engineering Conference) - KEEN, Shanghai LTD	2016
Kaspersky SAS 2017 (Reverse Engineering Conference) - Kaspersky	2017