Cristian **Souza**

✉ cristianmsbr@gmail.com | ⌂ crhenr.xyz | ⌨ crhenr | in crhenr | Ⓜ crhenr | 🎓 Cristian Souza | Lattes CV

Summary

Currently studying Computer Systems Networking at IFRN, Brazil. Experienced in information security, system administration, computer vision, and image processing. Works on research projects since high school. Likes trying new tools and technologies, as well as developing new open-source projects to help the community.

Experience

SutHub   *Remote*

BACK-END DEVELOPER   *Nov 2020 -*

- Developed multiple Robotic Process Automation (RPA) tools.
- Main programming language: Python.
- Other technologies: Selenium, AWS (EC2, CloudWatch, and S3), MySQL.

Daryus Consultoria e Treinamento   *Remote*

INSTRUCTOR   *Jan 2021 -*

- Taught multiple Web Application Security classes for developers and security professionals.
- Main contents: OWASP Top 10, OWASP Secure Coding Practices, OWASP Proactive Controls, OWASP API Security, SAST, DAST, SCA, DevOps, DevSecOps and Threat modeling.

Actions Security   *Remote*

INFORMATION SECURITY ANALYST   *May 2018 - Jul. 2019*

- Main programming languages: Python and C.
- Contributed to the development of a Web Application Firewall (WAF).
- Worked with the Elastic Stack, Docker containers and reverse proxies.
- Implanted an OpenStack infrastructure.
- Executed penetration tests in web applications.
- Other technologies: OWASP Top 10, AWS, OpenStack, ModSecurity, Linux.

Federal Institute of Rio Grande do Norte   *Natal, RN - Brazil*

R&D SOFTWARE DEVELOPER   *Apr. 2016 - Dec. 2018*

- Main programming languages: Java and Python.
- Worked in the fields of computer vision and image processing.
- Developed an ALPR application for embedded hardware (with patent application).
- Developed an OCR application.
- Developed a deep learning face recognition application and API.
- Other technologies: OpenCV, dlib, REST, Flask, MySQL, RFID.

Education

IFRN (Federal Institute of Rio Grande do Norte)   *Natal, RN - Brazil*

COMPUTER SYSTEMS NETWORKING DEGREE   *2019 - Now*

IMD (Digital Metropolis Institute)   *Natal, RN - Brazil*

CERTIFICATE PROGRAM IN ELECTRONICS   *2018 - 2019*

IFRN (Federal Institute of Rio Grande do Norte)   *Natal, RN - Brazil*

CERTIFICATE PROGRAM IN INFORMATICS   *2015 - 2018*

Skills

Languages   Portuguese (native), English (advanced level), French (basic level)

Programming   C, Java, Python, Shell Script, SQL

Generic   AWS, Penetration Testing, OWASP Top 10, Git, Docker, Elastic Stack, Linux Administration, Flask, REST

Certifications

Linux+, CompTIA

LPIC-1, Linux Professional Institute

Research Papers

On detecting and mitigating phishing attacks through featureless machine learning techniques

DOI: 10.1002/itl2.135

WILEY INTERNET TECHNOLOGY LETTERS

2020

- Cristian Henrique M. Souza, Marcilio O. O. Lemos, Felipe S. Dantas Silva, Robinson L. Souza Alves

MTD para Proteção de Redes SDN

ENCOM 2020

CONFERÊNCIA NACIONAL EM COMUNICAÇÕES, REDES E SEGURANÇA DA INFORMAÇÃO

2020

- Cristian Henrique M. Souza, Túlio A. Pascoal, Emídio P. Neto, Francisco S. Lima Filho, Felipe S. Dantas Silva

PhishKiller: Uma Ferramenta para Detecção e Mitigação de Ataques de Phishing Através de Técnicas de Deep Learning

SBSeg 2019

XIX SIMPÓSIO BRASILEIRO DE SEGURANÇA DA INFORMAÇÃO E DE SISTEMAS COMPUTACIONAIS

2019

- Cristian Henrique M. Souza, Marcilio O. O. Lemos, Felipe S. Dantas Silva, Robinson Luis S. Alves

Embedded System for Access Control Based on Facial Biometry and RFID

DOI: 10.1007/978-3-030-02683-7_62

PROCEEDINGS OF THE FUTURE TECHNOLOGIES CONFERENCE

2018

- Cristian Henrique M. Souza, Ivanilson França V. Júnior, Robinson Luis S. Alves, Arthur Henrique C. Costa, Melquiades P. Lima Júnior

Honors & Awards

CVE-2019-7634, Common Vulnerabilities and Exposures

2019

Capture the Wave Champion, Darkwaves Conference

2018

Open-source Projects

Freki

MALWARE ANALYSIS PLATFORM

Python

- Features: static analysis, user management, REST API, and Web UI.

OpenBSD self-hosted

DEPLOY PRIVATE SERVICES ON TOP OF OPENBSD

Shell Script

- Features: automatically installs and configures cloud, git, and email services.

JCEditor

ADVANCED TEXT EDITOR

Java

- Features: syntax-highlighting, cross-platform, Swing UI.

Patents & Software

Sistema Embarcado para Reconhecimento Automático de Placas de Veículos

2018

BR 10 2018 015493 1

NAVI RPi Face Recognition

2019

BR512019000143-5

NAVI-ALPR

2019

BR512019000144-3

NAVI Face Recognition API

2019

BR512019000141-9

Sistema Embarcado para Medição de Pluviosidade e Gerenciamento SNMP *2019*

BR512019000140-0

OCR-NAVI *2018*

BR512018000086-0