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EDUCAÇÃO

- **Southern Santa Catarina University**
Graduation in Computer Science

Tubarão, SC
Jan. 2017 – 2022

INTERESTED IN

- Security by isolation through virtualized systems.
- Open source projects and systems architecture.
- Cryptography primitives against information misuse.
- Binary reverse engineering.
- *Exploits* and *rootkits* development.
- Qubes OS project due to security and personal use perspectives.
- *Assume breach* security model, implemented in Qubes OS.

EXPERIENCE

- **Tecimob**
Software developer

Tubarão, SC
Jul. 2017 - Mar. 2019

 - **Laravel**: Open source framework based on Symfony framework, for web application development following the Model-View-Controller architecture.
 - **React**: Open source library for development of user interfaces in websites.
 - **Postgresql**: Open source relational database management system.
 - **Nginx**: Web server that can act as a reverse proxy for websites and e-mail, load balancer and HTTP cache.
 - **AWS**: Virtualized computation service provided by Amazon.
 - **CI/CD**: Continuous integration and continuous delivery aims to provide automation in the steps for developing applications, such as building, test and deploy.

PROJECTS

- **Badcat**: (link) It is a tool intended to be used by Red Team engagements, in order to mimic APT (Advanced Persistent Threat) attacks. It hides the C2 (Command and Control) server by using Tor's Onion Services.
- **Web application pentest**: (link privado) As part of a service provision, I performed a penetration test in the web application with a final report and instructions to fix discovered vulnerabilities.
- **Studies about x86 architecture**: (link) Study and experiment area about one of the most used family of computer instructions set, Intel's x86 architecture.
- **Proxmox Template VMs**: (link) This tool brings the Template virtual machine concept from Qubes OS into Proxmox.
- **Cibern3tico**: (link) A game about cyber attacks using Unity framework, in order to penetrate the virtual environment looking for a flag.
- **Task automation in Cisco and Juniper routers**: (link) As part of a job interview, I developed a solution that automates the modification of certain configurations in remote routers.
- **The smallest route between two points for trucks**: (link) I together with college colleagues, we developed a solution using the original Dijkstra algorithm that finds ideal route for truck drivers taking into account route's trafficability, condition and stopping points.

PROGRAMMING SKILLS

- **Languages:** Assembly x86_64, Python, Javascript, PHP, Shell script, C, C#, Rust, Java, PowerShell, Dart, SQL
- **Technology:** Ansible, Cisco e Juniper Routers, AWS e Azure Cloud Provider, PM2, Systemd, ELK, Laravel, React, Django, Flask, Linux Kernel Module, Postgresql, Oracle Database, MongoDB, Unity Engine

CYBER SECURITY SKILLS

- **Tools:** Wireshark, Aircrack, Responder, impacket framework, Nmap, Burp Suite, Gobuster, Wfuzz, Metasploit framework, Seclists, PEASS, Patator, Hydra, Sqlmap, Hashcat, John The Ripper, Maltego, GDB, EDB-Debugger, Ghidra, WinDBG
- **Virtualization:** QEMU, Xen
- **Modules:** Iptables, OpenBSD PF Firewall, AppArmor, Open-SSH server, Unbound, Dnsmasq, GnuPG, Xorg
- **Operating System:** Qubes OS, Fedora, Debian, Kali Linux, OpenBSD, Arch Linux, Cisco IOS, Android
- **Cryptography:** RSA (prova de conceito no projeto Cibern3tico), SHA3, AES, ED25519