

# ANTONIO COSTA

Full stack developer

@ coolerlair@gmail.com    📍 Brazil, Sao paulo    🔗 <https://github.com/CoolerVoid>

## EXPERIENCE

Developer, reverse enginer and researcher

Itau unibanco

📅 July 2018 – Ongoing    📍 Brazil - Sao paulo

- Automation every task with robots on IMAP and SMTP protocols.
- Patch to fix bugs in local projects.
- I wrote some reports about local security.
- Threat intelligence services
- Hookings in C++ to protect sandbox etc.
- Pentest, codereview etc.

Pentester, Developer and researcher

CONVISO

📅 jan 2011 – Juny 2018    📍 Curitiba - Brazil

- Penetration Test on Network, System, Web and WiFi. Vulnerability Assessment with automated and manual approach Basis of Bug Hunting through reverse engineering, tests or code review. Mitigating and preventing any threat spread, patch for any source code.
- Selenium robots to automate evidences
- Articles, tools etc.

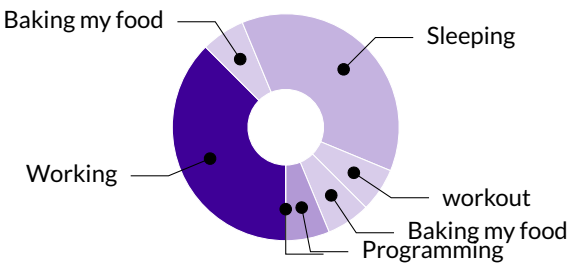
Developer, Programmer

Freelancer

📅 jan 2006 – Jan 2011    📍 Sao paulo - Brazil

- Software Developer in ASM, C, C++, Perl, PHP and javascript for systems like e-commerce, CMS, PoS, web robots, IDS... Programming embedded systems with AVR, ARM and PIC...

## A DAY OF MY LIFE



## MOST PROUD OF



Honors & Awards

First position on Top C GitHub developers in Sao paulo city git-awards.com/users/search?login=CoolerVoid

## STRENGTHS

Hard-working

Hacking

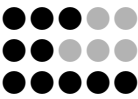
Motivator

## LANGUAGES

English

Spanish

Portuguese



## PROGRAMMING SKILLS

Ansi C

C++

Rust

Assembly

PHP7

Common Lisp

Python

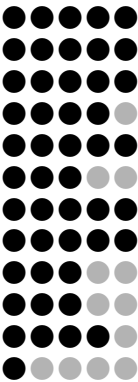
Perl

C#

Ruby

javascript

Java



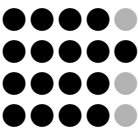
## OS SKILLS

OpenBSD

Linux

Windows

MacOS



## EDUCATION

M.S. in Computer Science

UNASP

📅 Sept 2010 – June 2013 - locked

## PRESENTATIONS

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### Articles

- [“https://www.darknet.org.uk/2019/07/mosca-manual-static-analysis-tool-to-find-bugs/”](https://www.darknet.org.uk/2019/07/mosca-manual-static-analysis-tool-to-find-bugs/) (2019). In: *Mosca – Manual Static Analysis Tool*.
- [“https://medium.com/code-fighters/bank-malware-mitigations-42ee244100bf”](https://medium.com/code-fighters/bank-malware-mitigations-42ee244100bf) (2018). In: *Bank malware mitigations*.
- [“https://medium.com/code-fighters/firefox-tunnel-to-bypass-any-firewall-bc6f8b432980”](https://medium.com/code-fighters/firefox-tunnel-to-bypass-any-firewall-bc6f8b432980) (2018). In: *Firefox tunnel to bypass any firewall*.
- [“https://hackaday.com/2017/08/13/complete-ir-control/”](https://hackaday.com/2017/08/13/complete-ir-control/) (2017). In: *Hack any TV remote control*.
- [“blog.conviso.com.br/criando-seu-proprio-sistema-anti-spam/”](http://blog.conviso.com.br/criando-seu-proprio-sistema-anti-spam/) (2016). In: *Improving spam detection with automatons*.
- [“https://www.darknet.org.uk/2016/10/raptor-waf-c-based-web-application-firewall/”](https://www.darknet.org.uk/2016/10/raptor-waf-c-based-web-application-firewall/) (2016). In: *Raptor WAF*.

### Conference

- <https://pt.slideshare.net/antoniocooler/burlando-waf-20> (2015). “TDC Sao paulo - Bypass WAF”. in: *TDC SP*.
- <https://pt.slideshare.net/antoniocooler/Od1n> (2014). “Bsides Sao paulo - od1n web hacking tool”. In: *Bsides SP*.
- <http://www.softwarelivre.gov.br/eventos/seminarios-tecnologicos-seguranca-da-informacao> (2014). “TDC Sao paulo - the developers conference - Development Pitfalls”. In: *TDC SP*.
- – (2013). “Seminário Tecnológico de Segurança da Informação - Automação para o web hacking”. In: *SERPRO GOV*.
- <https://pt.slideshare.net/antoniocooler/vivendo-de-hacking> (2012). “Semana da computação - Vivendo do hacking”. In: *UNASP*.
- <https://pt.slideshare.net/conviso/web-spiders-automao-para-web-hacking> (2012). “Automação para o web hacking”. In: *OWASP Florianopolis*.
- <https://pt.slideshare.net/antoniocooler/detector-de-ladro-com-laser> (2011). “Detector de ladrão usando laser”. In: *YSTS*.

## TECHNICAL SKILLS

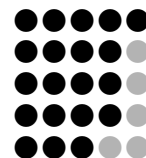
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- Skill full in Penetration Testing and Secure Code Review.
- Great experience in Operating System, Network Administration and programming.
- Great experience to problem solving, full skill how to automate just about anything.
- Great experience to low level programming, like develop drivers and kernel solutions.

## DBMS SKILLS

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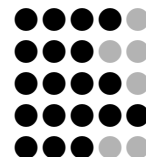
SQLite  
Postgre  
Redis  
MySQL  
MongoDB



## UI SKILLS

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GTK  
QT  
WxWidgets  
X11  
WinAPI



## RED TEAM SKILLS

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- UAC bypass
- DACL evasion
- Bypass firewalls
- Bypass AV
- Simulate DoS threat
- API Hookings
- RootKit ops
- form grabbing ops
- Persistence
- Screenlogger ops
- Keylogger ops
- Phishing ops
- Pharming ops
- Drop spread
- Packing ofuscation etc
- Fuzzing

## CURRENT STUDY

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- Python with Flask + SQLAlchemy
- Rust with Diesel + Iron + R2D2
- Linux kernel resources to create devices and drivers
- Follow OpenBSD sources commits etc
- RaspBerry PI other ARMs
- AWS Solutions and attack vectors
- follow hackaday articles
- MQL metatrader query language to automate trading
- NLP to classify texts
- Biohacking and ketogenic diet to reverse diabetes

# OPEN SOURCE PROJECTS

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- HiddenWall is a Linux kernel module generator for custom rules with netfilter. (block ports, Hidden mode, rootkit functions etc). The motivation: on bad situation, attacker can put your iptables/ufw to fall... but if you have HiddenWall, the attacker will not find the hidden kernel module that block external access, because have a hook to netfilter on kernel land(think like a second layer for firewall) <https://github.com/CoolerVoid/HiddenWall>.
- Od1n is a Open Source web application bruteforcer and Fuzzer. If your objective is automate exhaustive tests and search for anomalies (read vulnerabilities) Od1n can increase your productivity following web parameters, files, directories, forms and other things. <https://github.com/CoolerVoid/Od1n>
- Raptor is a Web application firewall made in C language, uses Horspool, karpabin or DFA to match and block SQL injection, Cross site scripting and path traversal attacks. [https://github.com/CoolerVoid/raptor\\_waf](https://github.com/CoolerVoid/raptor_waf)
- strcmp() function implementation with intel's SSE 4.2 instruction faster than original C strcmp() because uses SIMD with 128bit registers. [https://github.com/CoolerVoid/cooler\\_sse42\\_strcmp](https://github.com/CoolerVoid/cooler_sse42_strcmp)
- libFastKNN is a C++ library of k-nearest neighbors algorithm (k-NN), faster because uses Armadillo lib, in k-NN classification, the output is a class membership. An object is classified by a majority vote of its neighbors, with the object being assigned to the class most common among its k nearest neighbors (k is a positive integer, typically small). If k = 1, then the object is simply assigned to the class of that single nearest neighbor. [https://github.com/CoolerVoid/libfast\\_knn](https://github.com/CoolerVoid/libfast_knn)
- OptionsCat is a web server in C language using mongoose with web sockets(wss), have functions like european options tool, compound calc, finance manager for traders... uses the Black-Scholes model for calculating the premium of an option. <https://github.com/CoolerVoid/optionscat>
- Heap detective, tool to tokenize C++ code and use taint analysis to search memory pitfalls like UAF and memory leaks. [https://github.com/CoolerVoid/heap\\_detective](https://github.com/CoolerVoid/heap_detective)
- Nozes is a Pentest cmd manager. You can automate and save your pentest attacks in one click. Uses PHP with SQLite at background... look that following <https://github.com/CoolerVoid/nozes>
- libTextBayes a c++ library to help detect spam in text content using machine learning.
- Thread pool library for C language. <https://github.com/CoolerVoid/tombpool>
- Port Knocking technique for shell with AES256-GCM [https://github.com/CoolerVoid/ninja\\_shell](https://github.com/CoolerVoid/ninja_shell)
- AritEval Arithmetic expression evaluator for C language with anti-integer-overflow resources [https://github.com/CoolerVoid/arit\\_eval](https://github.com/CoolerVoid/arit_eval)
- The way to use firefox to make a tunnel to remote communication, bypass any firewall... [https://github.com/CoolerVoid/firefox\\_tunnel](https://github.com/CoolerVoid/firefox_tunnel)