GABRIELA SURITA

ABOUT

968 TARUMA ST
CAMPINAS SÃO PAULO
13098-341

GABSURITA@GMAIL.COM

+55 (19) 98123-6676

GABISURITA.GITHUB.IO

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GABSSURITA

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PROGRAMMING LANGUAGES

PYTHON (PROFICIENT)
C/C++ (ADVANCED)
JAVA
JAVASCRIPT
PHP
R
RUST
SHELL (BASH, CSH, ZSH)

TECHNOLOGIES

APACHE
DJANGO
FLASK
FPGA
GIT/SVN
JQUERY
METASPLOIT
MYSQL
OPENAPI
OPENSSH
POSTGRESQL
PYRAMID
TRAVIS/COVERALLS
SPARK MLLIB
SYMFONY PHP
WIRESHARK

LANGUAGES

PORTUGUESE *(NATIVE SPEAKER)*
ENGLISH *(FLUENT)*
SPANISH *(FLUENT)*
GERMAN *(READ AND WRITE WELL, SPEAKS POORLY)*

SUMMARY

Hi! I'm Gabriela Surita. I'm a senior year computer engineering student at University of Campinas and certified part time software developer. My best skill is to be able to combine practical, self-taught, and quick hacking solutions with software engineering good practices.

EXPERIENCE

SOFTWARE FREEDOM CONSERVANCY - MOZILLA
12/2016 - 03/2017

OUTREACHY INTERN

Conservancy is a non-profit organization that promotes Outreachy - An internship program for people underrepresented in the computer science and free software community.

- Mainly worked with an Open Source distributed HTTP storage service - Kinto.
- Documented, tested and patched some inconsistencies in the Kinto API.
- Worked with OpenAPI/Swagger documentation standards writing automated documentation tools and API compliance test environments.
- Directly contributed to more than a dozen open software repositories.
- Mastered continuous integration, TDD, and other free software development techniques.
- Submitted patches to large projects such as Pyramid, Colander and Swagger.
- Worked with a diverse distributed team.

MESONN INSTRUMENTS
04/2016 - 08/2016

CONTRACT EMBEDDED SYSTEMS DEVELOPER

Mesonn Instruments is a startup that produces digital measuring instruments for synchrotron laboratories and general purposes.

- Communicating pure FGPA designs with Ethernet.
- Writing Verilog/VHDL Hardware specifications.
- Using embedded Linux and in C/C++.
- Reimplementing network protocols on highly constrained environments.

LASCA UNICAMP - INTEL
12/2013 - 06/2016

JUNIOR RESEARCHER

LASCA stands for Laboratory of Security and Cryptography and is the main research facility for digital security from University of Campinas. LASCA had a partnership with Intel that included scholarships for Junior researchers on Intel related projects.

- Worked with cryptographic hardware primitives designs such as TRNGs and PUFs.
- Studied with Machine learning based attacks on security primitives.
- Authored two articles, one for an international conference, about PUF Security properties.
- Contributed to other research projects implementing efficient hardware-based cryptosystems on topics like electronic voting and low cost IoT authentication.

3E UNICAMP
04/2013 - 09/2013

CONTRACT WEB DEVELOPER

3E Unicamp is a Junior enterprise that provides consulting services from teachers and skilled students on the fields of Electrical and Computer Engineering.

- Worked as a contract software developer building websites and webservices in Django.
- Wrote Front-End applications using Javascript, CSS and HTML
- Used continuous integration and Test Driven Development.

SPAÇO
03/2012 - 03/2013

SOFTWARE DEVELOPER

Spaço is a local advertisement company focused on Web solutions for small businesses.

- Developed Applications and WordPress extensions in PHP.
- Managed Apache Servers and MySQL databases.
- Co-managed a plural team mainly composed by designers.

VOLUNTEER

PYLADIES BRAZIL
04/2015 - PRESENT

TEACHER

Global movement to teach and encourage women to follow careers in computer science.

- Teach computer science introduction and machine learning courses to women and teenagers using Python.

EDUCATION

UNIVERSITY OF CAMPINAS
02/2013 - PRESENT

BACHELOR IN COMPUTER ENGINEERING

IMPACTA
02/2009 - 11/2011

CERTIFICATE PROGRAM IN SOFTWARE DEVELOPMENT

PUBLICATIONS

CYLINDRICAL RECONVERGENCE PUF
07/2016

PROCEEDINGS OF THE 19TH EUROMICRO SYMPOSIUM ON DIGITAL SYSTEMS DESIGN

Propose a new architecture of Physical Unclonable Function that shows a better trade-off between hardware footprint and resistance to machine learning modelling attacks.

OPEN SOURCE PLATFORM FOR DIGITAL SIMULATION OF DELAY BASED PUFS
11/2015

PROCEEDINGS OF THE 18TH UNDERGRADUATE SCIENTIFIC RESEARCH CONGRESS OF UNICAMP

Propose and evaluate a digital simulation model for Physical Unclonable Functions hardware security primitives.