

# Athos Ribeiro

Software Engineer

## contact

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## languages

Portuguese - native  
English - fluent  
Spanish - basic

## programming

Python, Ruby, Perl,  
Shell script, Go, C/C++,  
HTML5, SQL

## software

GNU/Linux, Ansible,  
Chef, Docker, Vagrant,  
RPM, git,  $\LaTeX$

## education

- 2016–current **Master's degree --** Computer Science University of São Paulo, Brazil  
*Ranking Warnings Based on Continuous Source Code Static Analysis Reports*  
This ongoing thesis aims to train a machine learning model to identify possible false positive warnings in static analysis reports from multiple tools and provide a ranked warning list to users.
- 2011–2015 **Bachelor --** Software Engineering University of Brasília, Brazil

## experience

### Work

- 2015–2016 **LAPPIS** University of Brasília, Brazil  
*Software Developer*  
Worked as a software developer on Portal do Software Público Brasileiro - a platform for hosting and development of Brazilian government FLOSS.  
Detailed achievements:
  - Worked with the DevOps team on a Continuous Delivery strategy
  - Performed deploys in production environment
  - Helped Python and Ruby teams debugging tool integration issues
- 2014–2015 **NIST - National Institute of Standards and Technology** Gaithersburg, MD - USA  
*Guest Researcher*  
Worked as a Guest Researcher for the Software Assurance Metrics and Tool Evaluation (SAMATE) team in the Software and Systems Division.  
Detailed achievements:
  - Learned about the CWE and CVE projects
  - Investigated software flaws and static analyzer warnings
- 2013–2014 **2Reach** Brasília, Brazil  
*Software Developer*  
Worked as a Ruby on Rails developer on Sizify, a function points analysis platform.  
Detailed achievements:
  - Implemented a first version of the platform automated test suite
- 2011 **Concreta Consultoria e Serviços** University of Brasília, Brazil  
*Marketing Director*  
Marketing Director of Concreta Consultoria e Serviços, Civil Engineering Junior Enterprise at Universidade de Brasília.

## Free and Open Source Projects

- 2015–Now **Fedora Project** Remote  
*Fedora Project Contributor*  
 Detailed achievements:
  - Packaging RPM software to be included in the distribution, which often involves sending patches to upstream projects
  - Member of the Static Analysis Special Interest Group
  - Member of the Ruby Special Interest Group
  - Member of the x86 Special Interest Group
  - Infrastructure Apprentice
  - English to Brazilian Portuguese Translator
  - Help organizing Fedora related events and meetings in Brazil
- 2017 **Google Summer of Code** Remote  
*Mentor for the Fedora Project*  
 The project developed during the program was kiskadee - a continuous source code static analysis tool.

## Scholarships

- 2016–2017 **IME-USP - Python Course at Coursera** University of São Paulo, Brazil  
*Course Staff*  
 Part of the staff for our Python course at Coursera.  
 Detailed achievements:
  - Prepared programming assignments
  - Wrote and deployed automated graders for programming assignments
  - Answered questions in the course forums
- 2013 **LEI - Laboratório de Engenharia e Inovação** University of Brasília, Brazil  
*Network Administrator*  
 Worked on the configuration and administration of the laboratory network.
- 2013 **CQTS - Centro de Qualidade e Testes de Software** University of Brasília, Brazil  
*Software Developer and System Administrator*  
 Worked on the configuration and customization of OTRS for Brazilian government Ministries of Culture and Communications.  
 Detailed achievements:
  - Deployed our solution in both staging and production environments

## presentations

- 2017 **II Seminário "Software e Cultura no Brasil"** São Bernardo do Campo, SP, Brazil  
 Introduced the Fedora Project community and described the distribution release process.
- 2016 **FGSL - Fórum Goiano de Software Livre** Goiânia, GO, Brazil  
 Talked about the Fedora Project package review process and performed a live official package review during the presentation
- 2016 **FUDCon - Fedora Users and Developers Conference** Puno, Peru  
 During FUDCon Puno I presented a few talks, involving RPM packaging and software licenses.
- 2015 **FISL - Fórum Internacional de Software Livre** Porto Alegre, RS, Brazil  
 Presented a few lightning talks about our Continuous Delivery strategies in Portal do Software Público Brasileiro.

## Extracurricular activities

2017	<b>Hackathon USP 2017</b> Our team won an honorable mention with CollabResearch	São Paulo, SP, Brazil
2017	<b>Hackathon SEMISH 2017</b> Volunteer – Assisted participants with technical advices	São Paulo, SP, Brazil
2017	<b>Agile Trends 2017</b>	São Paulo, SP, Brazil
2016	<b>Hackathon Cotidiano</b> Our team won an honorable mention with TenhoDito	Brasília, DF, Brazil
2014	<b>SATE V - Static Analysis Tool Evaluation workshop</b>	Gaithersburg, MD, USA
2013	<b>Python Brasil 9</b>	Brasília, DF, Brazil
2013	<b>CBSOFT 2013 - Congresso Brasileiro de Software</b>	Brasília, DF, Brazil
2013	<b>Software Freedom Day 2013</b>	Taguatinga, DF, Brazil
2013	<b>CONSEGI - VI Congresso Internacional Software Livre e Governo Eletrônico</b> Brasília, DF, Brazil	
2013	<b>FISL 14 - Fórum Internacional Software Livre</b>	Porto Alegre, RS, Brazil
2013	<b>FLISOL 2013 - Festival Latino Americano de Instalação de Software Livre</b> Ceilândia, DF, Brazil	
2012	<b>TDC 2012 - The Developers Conference</b>	Goiânia, GO, Brazil
2012	<b>FISL 13 - Fórum Internacional Software Livre</b>	Porto Alegre, RS, Brazil
2008	<b>WEC 2008- World Engineering Convention</b>	Brasília, DF, Brazil
2003–2005	<b>Advanced English Course</b>	Casa Thommas Jefferson, Brasília, DF, Brazil
2003	<b>Computer Hardware Basics</b>	SENAI, Brasília, DF, Brazil

## interests

**professional:** Free Software, Static Analysis, Computer Security, DevOps, Software Design, Programming, Release Engineering, Infrastructure

**personal:** Soccer, Home-brewing, Brazilian Jiu-Jitsu, DIY

## publications

### international peer-reviewed conferences/proceedings

A study on low complexity models to predict flaws in the Linux source code

L. Kanashiro, A. Ribeiro, D. Silva, P. Meirelles, and A. Terceiro

2017 12th Iberian Conference on Information Systems and Technologies (CISTI), 2017

## Password Policy Languages: Usable Translation from the Informal to the Formal

Michelle Steves, Mary Theofanos, Celia Paulsen, and Athos Ribeiro

*Human Aspects of Information Security, Privacy, and Trust: Third International Conference, HAS 2015, Held as Part of HCI International 2015, Los Angeles, CA, USA, August 2-7, 2015. Proceedings, 2015, Cham*

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## research reports

### SATE V Ockham Sound Analysis Criteria

Paul E Black and Athos Ribeiro

*NIST Interagency/Internal Report (NISTIR)-8113, 2016*