

Athos Ribeiro

Software Engineer

contact

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languages

Portuguese - native
English - fluent
Spanish - basic

programming

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

software

GNU/Linux, Ansible,
Docker, OpenShift,
RPM, git, \LaTeX

education

- 2016–2018 **Master's degree --** Computer Science University of São Paulo, Brazil
Ranking Warnings Based on Continuous Source Code Static Analysis Reports
- 2011–2015 **Bachelor --** Software Engineering University of Brasília, Brazil

experience

Work

- 2018–2021 **Red Hat** Brno, Czech Republic
Software Engineer
Worked on the development of the OpenShift Build Service (OSBS), a collection of tools, workflows and integration points that build and release layered container images.
The work included maintaining upstream projects (mostly Python), Ansible playbooks, OpenShift deployments, and documentation.
- 2018 **Mastertech** São Paulo, Brazil
Instructor
Trained mainframe programmers to port systems from a monolithic architecture to a microservices architecture.
Delivered practical workshops on git, Docker, RPM packaging, Puppet, Jenkins, and agile methods.
- 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.
As part of the DevOps team, we worked on a Continuous Delivery strategy and assisted our Python and Ruby teams integrating our tools.
- 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. Investigated CVEs, CWEs, and static analyzer warnings.
- 2013–2014 **2Reach** Brasília, Brazil
Software Developer
Worked as a Ruby developer on Sizify, a function points analysis platform.

Free and Open Source Projects

- 2015–Now **Fedora Project** Remote
Fedora Project Contributor
Packaging RPM software to be included in the distribution, which often involves sending patches to upstream projects.

- 2018 **Google Summer of Code** Remote
Student under the Debian Project
 The project consisted of deploying an instance of Open Build Service (OBS) to rebuild Debian Unstable packages replacing the GCC compiler with the clang compiler.

- 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

- 2016–2018 **IME-USP - Python Course at Coursera** University of São Paulo, Brazil
Course Staff
 As part of the staff for our Python course at Coursera I prepared programming assignments, wrote and deployed automated graders for programming assignments, and assisted students through 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.

presentations

- 2021 **Devconf CZ** Online
 Building Fedora layered container images - a guide to OSBS in the Fedora infrastructure

- 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.

interests

professional: Free Software, Static Analysis, DevOps, Containers, Software Design, Programming, Release Engineering, Infrastructure
personal: Home-brewing, Brazilian Jiu-Jitsu, DIY

publications

article in peer-reviewed journal

Predicting Software Flaws with Low Complexity Models based on Static Analysis Data

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

Journal of Information Systems Engineering & Management 3.2 (Apr. 2018). 2018

peer-reviewed conferences/proceedings

Ranking Warnings from Multiple Source Code Static Analyzers via Ensemble Learning

Athos Ribeiro, Paulo Meirelles, Nelson Lago, and Fabio Kon

Proceedings of the 15th International Symposium on Open Collaboration, 2019, Skövde, Sweden

Ranking Source Code Static Analysis Warnings for Continuous Monitoring of FLOSS Repositories

Athos Ribeiro, Paulo Meirelles, Nelson Lago, and Fabio Kon

Open Source Systems: Enterprise Software and Solutions, 2018, Cham

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

research reports

SATE V Ockham Sound Analysis Criteria

Paul E Black and Athos Ribeiro

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