

Alcemir Rodrigues Santos

Computer Science Assistant Professor



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Web & Git

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Programming

Java ★★★★★
Flutter ★★★★★
Python ★★★★★

Personal Skills

Team Player,
Initiative,
Curiosity,
Problem Solving,
Organized

Education

- 2014 - 2017 **Ph.D in Computer Science** Federal University of Bahia
4 years scholarship grant from FAPESB.
- 2011 - 2013 **Master's Degree in Computer Science** Federal University of Minas Gerais
2 years scholarship grant from CNPq.
- 2006 - 2010 **Bachelor's Degree in Computer Science** Federal University of Piauí
2nd Best grade among the classmates.
- 2003 - 2005 **High School Diploma** CEBRAPI
3rd Best grade among the classmates.

Experience

- Oct 2018 **Assistant Professor** State University of Piauí - UESPI
~now Since October 2018, I am working as a computer science assistant professor in this university. I teach graduation courses mainly in the topic of Software Engineering, such as (i) Software Engineering; (ii) Object Oriented Programming; (iii) Analysis and Design of Object-oriented Software; (iv) Entrepreneurship. Since mid-2019 I am the head of a computer science bachelor degree here.
- Aug 2019 **Lecturer** CEV Institute for Higher Education - iCEV
~Dec 2020 During one year and a half, I worked as a software engineering degree lecturer in this college. I taught graduation courses such as (i) Software Engineering and (ii) Object-Oriented Programming; Analysis and Design of Object-oriented Software
- Aug 2017 **Lecturer** Federal University of Piauí - UFPI
~Sep 2018 I worked at UFPI as a temporary lecturer for the Information Systems Bachelor Program. I have taught the following courses: (i) Project and Development of Information Systems; (ii) Analysis and Design of Object-oriented Software; (iii) Logical Programming; (iv) Object Oriented Programming.
- Aug 2015 **Visiting Scholar** Universität Passau
~Jul 2016 I lived one year in Passau. During this time I had to work together with other *Ph.D.* students from the University of Passau research group under supervision of Prof. Sven Apel. Among my responsibilities were to build a tool for collecting software repositories metadata about software conflicting merges and built the network from those developers who contributed to the conflicting merge. Most of the time I programmed with Java and MySQL, but also learned some Python and R.
- 2016 **Open-source Software Sporadic Contributor** JGit
During my time at the University of Passau I have contributed some pieces of code, including test cases, to the open-source JGit community. JGit is a pure Java library implementing the Git version control system.

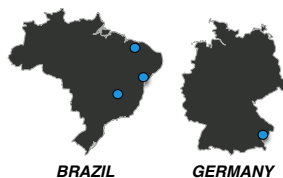
Publications

DBLP
Google Scholar

OS Preference

MacOS ★★★★★
GNU/Linux ★★★★★
Windows ★★★★★

Places Lived



Languages

Portuguese ★★★★★
English ★★★★★
German ★★★★★
Spanish ★★★★★

2013 - 2014 Research Assistant

Reuse in Software Engineering Laboratory (RiSE Labs)

During one year I had to work together with the *Master* and *Ph.D.* students from the research group. Among my responsibilities were to help the students with the design and execution of software engineering experiments in different Software Engineering topics, as well as software development and testing with Java and Objective-C.

01/2010-
02/2011

Web Developer

Freelance

Just prior to finish my CS Degree I have worked as Full-Stack Freelance Web-developer in small projects for local events and our local Judo team with PHP.

2008 - 2009 Research Internship

Federal University of Piauí

During one year I have programmed neural networks addressing interger optimization problems mainly using SciLab.

Publications

★ This star indicates the ones I consider the most relevant ones.

in Journals

★ VALE, G.; SCHMID, A.; **SANTOS, A. R.**; ALMEIDA, E. S.; APEL, S.

On the Relation Between GitHub Communication Activity and Merge Conflicts.

Empirical Software Engineering 25, 402–433 (2020).

<https://doi.org/10.1007/s10664-019-09774-x>

★ **SANTOS, A. R.**; MACHADO, I. C.; ALMEIDA, E. S.; SIEGMUND, J.; APEL, S.
Comparing the Influence of Using Feature-Oriented Programming and Conditional Compilation on Comprehending Feature-Oriented Software.

Empirical Software Engineering. 24, 1226–1258 (2019).

<https://doi.org/10.1007/s10664-018-9658-x>.

CARVALHO, M. L. L.; SILVA, M. L. G.; GOMES, G. S. S.; **SANTOS, A. R.**; MACHADO, I. C.; SOUZA, M. L. J.; ALMEIDA, E. S..

On the implementation of dynamic software product lines: An exploratory study.

Journal of Systems and Software. 136: 74-100 (2018).

<https://doi.org/10.1016/j.jss.2017.11.004>

★ OLIVEIRA, R. P.; **SANTOS, A. R.**; GOMES, G.; ALMEIDA, E. S..

Evaluating Lehman's Laws of Software Evolution within Software Product Lines Industrial Projects.

Journal of Systems and Software. Volume 131. 347–365 (2017).

<https://doi.org/10.1016/j.jss.2016.07.038>.

SANTOS, A. R.; ALMEIDA, E. S..

Do #ifdef-based Variation Points Realize Feature Model Constraints?

Software Engineering Notes, v. 40, p. 1-5, 2015.

in Conferences

SANTOS, A. R.; MACHADO, I. C.; ALMEIDA, E. S..

Aspects Influencing Feature-Oriented Software Comprehension: Observations from a Focus Group.

Proceedings of the 11th Brazilian Symposium on Components, Architecture, and

Reuse (SBCARS). Fortaleza, 2017. p. 1-10.

★ **SANTOS, A. R. ; MACHADO, I. C. ; ALMEIDA, E. S..**

RiPLE-HC: JavaScript Systems Meets SPL Composition.

Proceedings of the 20th Software Product Lines Conference (SPLC). Beijing. p. 154-163. (2016).

<https://doi.org/10.1145/2934466.2934486>.

SANTOS, A. R.; MACHADO, I. C. ; ALMEIDA, E. S..

RiPLE-HC: Visual Support for Features Scattering and Interactions.

Proceedings of the 20th Software Product Lines Conference. Beijing, 2016. p. 320-323.

SOUZA, M. L. J. ; SANTOS, A. R. ; MACHADO, I. C. ; GOMES, G. ; ALMEIDA, E. S..

Evaluating Variability Modeling Techniques for Dynamic Software Product Lines: A Controlled Experiment.

Proceedings of the 10th Brazilian Symposium on Components, Architecture, and Reuse (SBCARS). Londrina, 2016. p. 1-10.

SANTOS, J. A. M. ; SANTOS, A. R.; MENDONÇA, M..

Investigating bias in the search phase of Software Engineering secondary studies.

12th Workshop on Experimental Software Engineering.

Proceedings of 18th Ibero-American Conference on Software Engineering (CiBSE), 2015.

★ **SANTOS, A. R. ; DE OLIVEIRA, R. P.; DE ALMEIDA, E. S..**

Strategies for consistency checking on software product lines.

Proceedings of the 19th International Conference on Evaluation and Assessment in Software Engineering (EASE). Nanjing. p. 1-14. (2015).

<https://doi.org/10.1145/2745802.2745806>.

SOUZA, M. L. J. ; SANTOS, A. R. ; ALMEIDA, E. S..

Towards the Selection of Modeling Techniques for Dynamic Software Product Lines.

Proceedings of the 5th International Workshop on Product Line Approaches in Software Engineering (PLEASE). Florence, 2015. p. 19-22.

SANTOS, A. R. ; FARIAS, M. A. F. ; ALMEIDA, E. S. ; MENDONCA, M. ; SANTANNA, C. N..

How developers deal with Code Smells: the case of the SourceMiner Evolution team.

Workshop on Software Visualization, Evolution and Maintenance (VEM). Proceedings of the 5th Brazilian Conference on Software: Theory and Practice (CB-Soft). Maceió, 2014. p. 1-6.

VALE, T; CABRAL, B.; ALVIM, L; SOARES, L. ; SANTOS, A. R. ; MACHADO, I.; SOUZA, I.; FREITAS, I.; ALMEIDA, E..

SPLICE: A Lightweight Software Product Line Development Process for Small and Medium Size Projects.

Proceedings of the 8th Brazilian Symposium on Software Components, Architectures, and Reuse (SBCARS). Maceió, 2014. p. 42-52.

★ **SANTOS, A. R.** ; GAIA, F. N. ; FIGUEIREDO, E. ; SANTOS NETO, P. ; ARAUJO, J..

Test-based SPL extraction: an exploratory study.

Proceedings of the ACM Symposium on Applied Computing (SAC). Coimbra, 2013. p. 1031-1036.

SANTOS, I. S. ; **SANTOS, A. R.** ; SANTOS NETO, P..

Reusing Functional Testing in order to Decrease Performance and Stress Testing Costs.

Proceedings of the 23rd International Conference on Software Engineering and Knowledge Engineering (SEKE). Miami, 2011. p. 1-5.

ALVES, P. ; **SANTOS, A. R.** ; FIGUEIREDO, E. ; FERRARI, F..

How do Programmers Learn AOP? An Exploratory Study of Recurring Mistakes.

5th Latin-American Workshop on Aspect-Oriented Software Development (LA-WASP).

Proceedings of the 2nd Brazilian Conference on Software: Theory and Practice (CBSOFT). São Paulo, 2011.

Honors & Awards

- | | | |
|------|---|--------------------|
| 2014 | Among Best Papers
8th International Workshop on Variability Modelling of Software-intensive Systems | VaMoS Workshop |
| 2013 | Student Travel Award
SIGAPP Student Travel Award Program of the Association of Computing Machinery (ACM). | ACM SAC Conference |

Certifications

- | | | |
|------|-------------------------------------|------------------------|
| 2014 | English Proficiency Level B2 | TOEFL ITP |
| 2016 | German Proficiency Level B2 | Volkshochschule Passau |

Interests

Professional: empirical software engineering; software maintenance and evolution; entrepreneurship.

Personal: guitar; music; judo.

May 1, 2021

Alcemir Rodrigues Santos

List of names for reference

iCEV	Prof. Dr. Fábio Anderson Silva Borges fabbioborges@grupocev.com	SE Degree Head
UFBA	Prof. Dr. Eduardo Santanta de Almeida esa@dcc.ufba.br	Ph.D. Advisor
UFBA	Prof. Dr. Ivan do Carmo Machado ivanmachado@dcc.ufba.br	Ph.D. Co-advisor
Saarland University	Prof. Dr. Sven Apel apel@cs.uni-saarland.de	Passau University Host
UFMG	Prof. Dr. Eduardo Figueiredo figueiredo@dcc.ufmg.br	M.Sc. Advisor
UFPI	Prof. Dr. Pedro de Alcântara dos Santos Neto pasn@ufpi.edu.br	M.Sc. Co-advisor