

APPLICATION FOR POSITION OF POSTDOCTORAL

Cleyton Vanut Cordeiro de Magalhães

Dear Mr. Gabriel Wainer,

I am Cleyton Magalhães, a PhD student (fourth year) in Computer Science in Brazil (Center for Informatics/UFPE) with a scholarship from CNPq (National Council for Scientific and Technological Development). I have been researching in Software Engineering area for around 8 years and I have been teaching in Information technology courses for 5 years. In 2017 I spent 7 months in **Western University** in London (Ontario) as an invited researcher working especially with software quality and work design in software engineering research.

I started my Ph.D. research in 2015 at Center for Informatics (UFPE, Brazil) and the main goal of my thesis in to understand the role and the particularities of job specialization in software engineering practice. In particular, I investigate the effects of job specialization in traditional and agile projects, and how this factor affects software engineers at work, in order to design a theory that could guide practitioners in managerial processes. The methodology of the study was composed of a mapping study, 2 survey replications and a case study. I published the mapping study in IST journal (Magalhães et al., 2015), the quantitative part of this research in Empirical Software Engineering and Measurement (da Silva et al, 2016) and I plan to publish the qualitative phase (case study) in IST journal (Information and Software Technology Journal).

In summary, since 2013 (when I started my master's course) I have published and participated of several research as main author and co-author in Software engineering conferences and journals, as follows: ESEM, ICSE, EASE, RESER and IST journal. Also, in 2013, I have served as a local organizer of the 17th International Conference on Evaluation and Assessment in Software Engineering held in Porto de Galinhas, Brazil.

I have 5 years of teaching experience on Software Quality, Database, Data Warehouse and Web Programming (PHP). I also advised undergraduate students in their undergraduate thesis. Thus, in a postdoctoral position, I would be able to contribute to undergraduate and postgraduate classes of both a research-led and a methodological nature. In this sense, I have experience in performing primary empirical studies and also secondary studies (systematic literature reviews and mapping studies).

In software industry I have worked as a java developer in a project funded by CNPq (National Council for Scientific and Technological Development) to create games for a museum of oceanography. I worked as a web programmer (php) in the development of a health-care social network, a project in collaboration between UFRPE (Rural Federal University of Pernambuco) and AACD (Disabled Children's Assistance Association). In the same project, I also worked as a software tester performing functional tests. Still as a QA professional, I worked in Motorola mobility performing functional tests in mobile devices. I worked as an interaction designer in Lifecode (Center of Medical Genetic), designing the user interface in this health-care project.

I would be grateful for the opportunity to demonstrate my capabilities further and I look forward to hearing from you.

Yours sincerely,

Cleyton Vanut Cordeiro de Magalhães

PhD Candidate

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in cvanut



EDUCATION

PhD | Center for Informatics - UFPE | 2015 – 2019

Research area: Job Specialization in Software Engineering

Master's degree | Center for Informatics - UFPE | 2013 - 2015

Research area: Empirical Software Engineering and Human aspects in Software Engineering

Bachelor's degree in Information Systems | UFRPE | 2008 - 2012

Research area: Recommendation Systems

Complementary classes | Udemy | 2018

UX Software Testing + Hotjar e UX Research.

Test automation with Selenium WebDriver in Java.



PROFESSIONAL EXPERIENCE IN SOFTWARE DEVELOPMENT

Visior researcher | Western University (Canadá) | 2016 - 2017

Publication: **Would You Like to Motivate Software Testers? Ask Them How.** Available in: <https://arxiv.org/abs/1711.07890>

Software Testing Engineering | Motorola Mobility Partnership | 2015

Functional Tests in mobile devices. Software used | Testcentral, JIRA

Software Testing Engineering | GenNet Project (UFRPE e AACD) | 2012

Functional tests in a collaborative social network to support children with genetic disabilities.

Back-End developer | GenNet Project (UFRPE) | 2012

Development of the recommender system of GenNet social network | PHP, Aptana Studio.

Publicação: Recommender Systems - An Experience With GenNet Health-care Social Network.

JAVA developer | Museum of Oceanography (UFRPE) | 2011 - 2012

Game developer.

Interaction designer | LIFECODE – Center of Medical genetic | 2011

Development of Wireframes and layouts | Adobe Photoshop, Adobe Dreamweaver.

Requirements analyst | TECNES – Research group | 2011



TEACHING EXPERIENCE

Professor | São Miguel College | 2016 - 2018

Classes: Software Quality, Web Programming, Database, Data Warehouse.

Professor – Computer Science | College of Science and Technology | 2014 - 2015

Classes: Computer Architecture, Data Structure.

Back-End developer | Technical School of Brazil | 2014 - 2015

Classes: Web Programming (PHP).

Professor de Front-End | Escola Técnica Aberta Do Brasil (ETEC-PE) | 2014 – 2016

Classes: Web Programming, Web Design.



IDIOMS

English: advanced. TOEFL ITP: 553.

French: intermediary.



PARTICIPATION IN EVENTS

11th International Symposium on Empirical Software Engineering and Measurement. Toronto, Canada. 2017.

38th International Conference on Software Engineering, Austin, USA. 2016.

10th International Symposium on Empirical Software Engineering and Measurement. Ciudad Real, Spain. 2016.

9th International Symposium on Empirical Software Engineering and Measurement. Beijing, China. 2015.

17th International Conference on Evaluation and Assessment in Software Engineering. Porto de Galinhas, Brazil. 2013.



RECENT RESEACRH

Ronnie E. S. Santos, Fabio Q. B da Silva, Maria Teresa Baldassarre; Cleyton V. C de Magalhães. Benefits and Limitations of Project-to-Project Job Rotation in Software Organizations: A Synthesis of Evidence. Information and Software Technology Journal, 2017.

Ronnie E. S. Santos, Cleyton V. C de Magalhães, Fabio Q. B da Silva. Member Checking in Software Engineering Research: Lessons Learned from an Industrial Case Study. 11th International Symposium on Empirical Software Engineering and Measurement, 2017.

Ronnie E. S. Santos; Cleyton V. C de Magalhães; Jorge da Silva Correia-Neto, Fabio Q. B da Silva; Luiz Fernando Capretz; Rodrigo Souza. Would You Like to Motivate Software Testers? Ask Them How. 11th International Symposium on Empirical Software Engineering and Measurement, 2017.

Cleyton V. C de Magalhães. 2016. Towards understanding work characteristics in Software Engineering. In: 14th Doctoral Symposium on Empirical Software Engineering (IDoESE). Ciudad Real, Spain, 2016.

Fabio Q. B da Silva, César França; Cleyton V. C de Magalhães, Ronnie E. S. Santos. 2016. Preliminary Findings about the Nature of Work in Software Engineering: An Exploratory Survey. In: 10th Empirical Software Engineering and Measurement. Ciudad Real, 2016.

Ronnie E. S. Santos, Fabio Q. B da Silva, Cleyton V. C de Magalhães, Cleviton V. C. Monteiro. 2016. Building a Theory of Job Rotation in Software Engineering from an Instrumental Case Study. In: 38th International Conference on Software Engineering - ICSE'2016, Austin, TX. DOI: <http://dx.doi.org/10.1145/2884781.2884837>.

Ronnie E. S. Santos, Fabio Q. B da Silva, Cleyton V. C de Magalhães. 2016. Benefits and Limitations of Job Rotation in Software Organizations: A Systematic Literature Review. 2016. In: 20th International Conference on Evaluation and Assessment in Software Engineering, EASE'2016, Limerick. DOI: <http://dx.doi.org/10.1145/12345.67890>

Cleyton V. C de Magalhães, Fabio Q. B da Silva, Ronnie E. S. Santos, Marcos Suassuna. Investigations about replication of empirical studies in software engineering: A systematic mapping study. Information and Software Technology. v. 64, p. 76–101, 2015.

Roberta M. M. Bezerra, Fabio Q. B da Silva, Anderson M. Santana, Cleyton V. C de Magalhães, Ronnie E. S. Santos. 2015. Replication of Empirical Studies in Software Engineering: An Update of a Systematic Mapping Study. In: 9th Empirical Software Engineering and Measurement. Beijing, 2015.

Cleyton V. C de Magalhães, Fabio Q. B da Silva, Ronnie E. S. Santos. Investigations about replication of empirical studies in software engineering: Preliminary findings from a mapping study. In: Proceedings of the 18th International Conference on Evaluation and Assessment in Software Engineering - EASE '14. London, UK.

Ronnie E. S. Santos, Cleyton V. C de Magalhães, Fabio Q. B da Silva. The use of systematic reviews in evidence based software engineering. In: the 8th ACM/IEEE International Symposium, 2014, Torino.

Cleyton V. C de Magalhães, Fabio Q. B da Silva. Towards a Taxonomy of Replications in Empirical Software Engineering Research: A Research Proposal. In: 2013 3rd International Workshop on Replication in Empirical Software Engineering Research (RESER), 2013. Baltimore. Unites States.