Resume
Raul Sena Ferreira

Personal Data

Madureira - Rio de Janeiro / RJ / +55 021 98952-8018

Education:

Coursing Masters degree in Data Engineering (Major in Machine Learning) – PESC / UFRJ (2015/03 - 2017/08)

BSc in Computer Science – UFRRJ (2010 - 2014)

Professional Experience

Federal Rural University of Rio de Janeiro (UFRRJ)
Lecturer in Computer Science – 2017/04 up to date
Teaching computer science classes about Data Structures II, Operational Systems and Computer Architecture

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Research Institute for Applied Economic (IPEA)
IT Coordinator – 2016/08 up to date
  IT leader of some projects inside IPEA and responsible for implanting and coordinating the adoption of new technologies and strategies to tackle many big data problems and data and systems integrations. Coordinating a team of 10 developers.
Technology: React.js, Laravel/Lumen, Jenkins, Docker, Cloudera stack, Selenium, Codeception

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INFNET University
MBA Professor – 2016/10 - 2017/01
Teaching classes about Big Data at Infnet, general concepts and practical exercises:
Machine Learning, Information Retrieval and Data Mining.

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National Museum – UFRJ
Scholarship in IT development of CNPQ – 2015/10 - 2016/08
  Coordinating the implementation of new system of biological collection of the national museum. Coordinating database migration from a legacy system to new one.
Technologies: Angular.js, Node.js, GWT(Java), Python (ETL), MySQL, MongoDB and front-end technologies (HTML, CSS, jQuery and Bootstrap).

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Research Institute for Applied Economic (IPEA)
Assistant Researcher II – 2015/07 - 2015/10
Developer of Project Map of Civil Society: https://mapaosc.ipea.gov.br/ and the Atlas of Social Vulnerability project: http://ivs.ipea.gov.br/ivs/
Worked on many parts of the two aforementioned systems, acting directly in the modeling of the databases used by both systems, high-performance processing implementation, ETL routines in addition to the development of computational modules demanded by the General Secretariat of the Republic.
Technologies: GWT(Java), XML, Postgres & PostGIS, GeoServer and front-end technologies (HTML, CSS, Bootstrap).
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COPPE Systems - UFRJ
Trainee Web Developer – 2013/06 - 2016/07
Web developer in two important projects: First project, I was responsible for data import system in biological collection format into the Reflora System and responsible for creating the public interface of the Virtual Herbarium query data.
This system is an initiative of the Brazilian government and the Botanical Garden, aiming to rescue images of specimens of flora and the information associated with them, deposited in foreign herbaria to build the Virtual Herbarium Reflora. (http://reflora.jbrj.gov.br/)
Technologies: - Framework MVC MDArte (AndroMDA), Java, Javascript, HTML, PostgreSQL, PostGIS, libraries (jQuery, Bootstrap and OpenLayers), CSS, XML, Jasper Reports, Shell script.

In the second project I was responsible to help my team developing an app with an better cover area and bus trip support than google maps inside Rio de Janeiro. (www.vadeonibus.com.br)
Technologies: Android
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COPPE Systems - UFRJ
Scientific Initiation Scholarship – 2012/08 - 2013/06
Research and Implementation de módulos pertinent to system of the Reflora Program.
Technologies: Java, PostgreSQL, Shell script and HTML, CSS and jQuery
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People Computer - Vila da Penha - RJ
Web Designer Teacher – 2010/10 - 08/2012
Teaching HTML, CSS, Javascript, PHP and MySQL classes
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Microcamp Computer – Vila da Penha – RJ
Teacher Web – 2010/10 - 08/2012
Teaching HTML, CSS, Javascript, PHP and MySQL classes
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Skills:
Platforms - Node.js, Apache
Front-End - HTML5, CSS3, JavaScript
Back-End - Shell Script, Java, PHP, C/C++, Python, Julia, Android
Databases - MySQL, Redis, PostgreSQL & PostGis, MongoDB
Libraries - JQuery, Bootstrap, OpenLayers, D3.js
DevOps tools: Docker, Jenkins, SVN, Git
English: TOEFL IBT: 78

Acknowledgments and Awards:
1st place in public call for Lecturer in Computer Science (2017)
1st place in public call for Researcher II of IPEA (2016)
1st place in public call for Assistant Researcher II of IPEA (2015)
Winner of 1st Challenge on Big Data – UFRJ / EMC2 (2014)
Honorable Mention in the XIX Programming Marathon – ACM / SBC (2014)
Invited Contestant in II National Hackathon of Educational Data – INEP (2014)
3rd place in first step of National competition "Launching People" – Samsung (2013)

Additional information:
Site: www.raulferreira.com.br
LinkedIn: http://www.linkedin.com/in/raulsenaferreira/

Extra activities:
Co-founder of the junior company of Computer science – UFRRJ (2017)
Computer Science and Administration Class Speaker – UFRRJ (2014)
Former Student Representative in the Department of Computer Science – UFRRJ (2012-2014)
DCE (Central Directory of the Students) Former member - UFRRJ (2011)
Co-founder of the Computer Science Academic Centre – UFRRJ (2010)