

Luiz Cavalcanti

Software Developer

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Experience

- 2017–now **Developer**, *Codus Tecnologia*, São Paulo, Brazil.
○ Development of web-based solutions using Ruby on Rails.
- 2016–2017 **Freelance developer**, *Self-employed*, São Paulo, Brazil.
○ Designed and implemented integration for industrial automation solutions for remote international clients;
○ Design and developed web-based solutions to small businesses with Python/Django.
- 2014–2016 **Software developer**, *INDT - Microsoft*, Manaus, Brazil.
○ Planned and created tools for digital image quality analysis using image recognition algorithms;
○ Implemented and shipped image processing solutions to printer drivers on Linux, Mac and Windows.
- 2011–2014 **Software developer**, *INDT - Nokia*, Manaus, Brazil.
○ Implemented and delivered Digital TV for Nokia X platform;
○ Designed, implemented and shipped Nokia/HERE Transit for Series 40 (Nokia Asha) for a global release;
○ Implemented and shipped SMS-Based solution to thousands of Nokia Series 30 mobile phones;
○ Helped junior team members to understand agile development and tutored them on best software engineering practices.
- 2007–2011 **Software Developer, Software architect**, *Teclogica*, Blumenau, Brazil.
○ Implemented Warehouse Management System with full automation to the largest tobacco company in the world;
○ Maintained and refactored the architecture of a large (500+ users) distributed Harvest Management System for Linux servers and Windows Mobile clients while in production;
○ Design, planning and implementation of Android tablet solution to construction industry;
○ Designed and implemented tools for CMMI level 2 & 3 certification.
- 2001–2007 **Software developer**, *Various*, Brazil.
○ Designed, implemented and shipped commercial software, ranging from PoS, CRM to ERP backend;
○ Taught Java and general programming courses for undergraduates.

Skills

Languages Java, Python, C, C++, C#, Objective-C, MATLAB, Shell Script, SQL
Databases Oracle, PostgreSQL, MySQL, SQLServer, db4o
Tools Git, Jenkins, Gerrit/Phabricator, emacs, build tools, Docker, Vagrant
Practices Scrum, Code Review, Continuous Integration, Continuous Deployment, TDD

Education

- 2014–2016 **Master's degree**, *Federal University of Amazonas*, Manaus, Brazil.
Computer science. Robotics & Computer Vision lab
Dissertation: Anthropic elements detection in Amazon Forest's aerial images
- 2005–2006 **Specialist degree**, *FURB*, Blumenau, Brazil.
Web Software Development.
Dissertation: Using constraint satisfaction algorithms to solve educational resource allocation problems
- 2001–2004 **Undergraduate degree**, *CEFET-AL*, Maceió, Brazil.
Information Technology. Research on software engineering

Languages

English: Fluent; **Portuguese:** Native; **Spanish:** Intermediate

Interests

Digital Image Processing
Complexity analysis

Machine learning
Functional programming

Publications

- 2015 **A Comparison on Supervised Machine Learning Classification Techniques for Semantic Segmentation of Aerial Images of Rain Forest Regions.**
Proceedings of the 10th International Conference on Computer Vision Theory and Applications - Berlin
DOI: 10.5220/0005300004980504
- 2013 **HERE transit for series 40: a location based application for public transport on feature phones.**
SIGGRAPH Asia 2013 Symposium on Mobile Graphics and Interactive Applications - Hong Kong
DOI: 10.1145/2543651.2543685
- 2013 **A SMS-based application store for emerging market: a case study.**
SIGGRAPH Asia 2013 Symposium on Mobile Graphics and Interactive Applications - Hong Kong
DOI: 10.1145/2543651.2543654
- 2013 **A Mobile-Based System for Content Delivery over SMS.**
6th International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications - Bologna
DOI: 10.1109/Mobilware.2013.8