Luiz Cavalcanti

Software Developer

Experience

2016-now Freelance developer, Self-employed, São Paulo, Brazil.

- Designed and implemented integration for industrial automation solutions for remote international clients;
- O Design and developed web-based solutions to small businesses with Python/Django.

2014–2016 Software developer, INDT - Microsoft, Manaus, Brazil.

- o Planned and created tools for digital image quality analysis using image recognition algorithms;
- o 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;
- o 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.

- o 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.

- o Designed, implemented and shipped commercial software, ranging from PoS, CRM to ERP backend;
- Teached 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