Luiz Cavalcanti
Software Engineer

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Experience

2019– **Lead Software Engineering Consultant**, *Thoughtworks*, São Paulo, Brazil
- Development of backend software in Python, Java and Ruby, ranging from banking to streaming media management;
- Planning and implementation of software delivery pipelines, enforcing shift-left quality culture, independent deployability and observability in a variety of business environments;
- Consulting, stakeholder management and roadmap planning for improving delivery of software across several organizations.

2018–2019 **Systems Specialist**, *Locaweb*, São Paulo, Brazil
- Creation of cloud services such as Windows-based Virtual Private Servers (VPS);
- Refactoring of legacy cloud backend and infrastructure applications;
- Assisting discontinuation of legacy services.

2017–2018 **Developer**, *Codus Tecnologia*, São Paulo, Brazil
- Evolution and maintenance of a leading online wine retailer in Ruby on Rails and PostgreSQL in Heroku platform;
- Creation of a B2B MVP to a major financial market player with Ruby on Rails in a Docker Swarm environment.

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, Ruby, Python, C, C++, Rust
Databases   MongoDB, Redis, PostgreSQL, MariaDB, Oracle, SQLServer
Tools   Git, Docker, Kubernetes, several CI/CD solutions
Practices   Agile, 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**: Basic

Interests

Digital Image Processing   Machine learning

Complexity analysis   Hardware emulation and simulation

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