



Juan Lopes

Software Engineer

Lives in

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Web

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Programming

Java ★★★★★
C# ★★★★★
Backend ★★★★★
Algorithms ★★★★★
Compilers ★★★★★
JavaScript ★★★★★
Frontend ★★★★★
Python ★★★★★
C++ ★★★★★

Languages

Portuguese ★★★★★
English ★★★★★
Spanish ★★★★★

Experience

- since 2011 **Software Engineer, R&D** [Intelie](#)
Works as a lead developer in the R&D department. Developed many new features in the company's stream analytics platform, Intelie Live, including the real-time query API and the extensibility core. Also, created Intelie Pipes, a distributed event processing language and engine that gives the company a competitive advantage. Created code that processes tens of billions of events per day.
- 2007–2011 **Software Engineer** [Living Consultoria](#)
Worked in several projects as lead developer. Wrote the company's main LOB applications framework, used in most projects. Worked in a large billing project for an European VoIP company, collaborating with teams all over the world.

Education

- 2014–2017 **M.Sc. in Computational Sciences** [Rio de Janeiro State University](#)
Researched on the application of probabilistic data structures to the implicit graph representation problem. Developed two new probabilistic implicit representations, one of which, based on locality-sensitive hashing, represents trees with better space complexity than any deterministic representation. Was part of the University's official IEEEExtreme team.
- 2006–2013 **B.Sc. in Informatics and IT** [Rio de Janeiro State University](#)
Focused on Algorithms and Data Structure-related classes. Participated in six editions of the ACM-ICPC as member of the University's official team, being South-American finalist in five of them. Graduated with a monograph on the polynomial-time nature of regular expressions implementations, evaluating the theory against industry-standard implementations.

Other Info

- since 2013 **Speaker at QCon São Paulo** [Talks](#)
(2016) "Randomness at the Heart of the Future Algorithms";
(2015) "Algorithms in the Battlefield";
(2013) "Analyzing and Reducing Big Data Streams in Real-Time".
- 2014–2015 **Speaker at QCon Rio** [Talks](#)
(2015) "Does Lucene Scale?"
(2014) "PIPES: A Language for Distributed Complex Event Processing."
- 2013–2016 **IEEEExtreme 24-Hour Programming Competition** [Contests](#)
Best results: 1st place in Brazil (2013) and 34th place worldwide (2015).
- 2008–2013 **International Collegiate Programming Contest (ACM-ICPC)** [Contests](#)
Five times South-American finalist.

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