JuanLopes

Software Engineer

Lives in
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Programming
Java ★★★★★
C# ★★★★★
Backend ★★★★★
Algorithms ★★★★★
Compilers ★★★★☆
JavaScript ★★★★☆
Frontend ★★★☆☆
Python ★★★☆☆
C++ ★★★☆☆

Languages
Portuguese ★★★★★
English ★★★★☆
Spanish ★★★☆☆

Experience

since 2011 **Lead Software Engineer, R&D**
Intelie, Rio de Janeiro, Brazil
Works as a lead developer in the R&D team. Responsible for 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 that processes tens of billions of events per day.

2007–2011 **Software Engineer**
Living Consultoria, Rio de Janeiro, Brazil
Worked in several projects as lead developer. Wrote the company's main LOB app framework, used in most projects. Worked in a large billing project for an European VoIP company, collaborating with teams all over the world.

Education

since 2017 **D.Sc. in Systems Engineering and Computer Science**
Federal University of Rio de Janeiro
Research line: Algorithms and Combinatorics. Continuing the research on probabilistic implicit graph representation. GPA: 4.0

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 member of the University's official IEEExtreme team. GPA: 3.8

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. GPA: 3.0

Additional Experience

since 2013 **Speaker and Program Commitee at QCon**
(2019, SP) Track Host – Computer Science;
(2018, SP) "Big Graph: Big Data applied to giant and dynamic graphs";
(2016, SP) "Randomness at the Heart of the Future Algorithms";
(2015, Rio) "Does Lucene Scale?";
(2015, SP) "Algorithms in the Battlefront";
(2014, Rio) "PIPES: A Language for Distributed Complex Event Processing";
(2013, SP) "Analyzing and Reducing Big Data Streams in Real-Time".

2013–2016 **IEEEXtreme 24-Hour Programming Competition**
Best results: 1st place in Brazil (2013) and 34th place worldwide (2015).

2008–2013 **ACM International Collegiate Programming Contest (ICPC)**
Five times South-American finalist.

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