

JuanLopes

Software Engineer

📍 Lives in

Rio de Janeiro, Brazil

✉ Contact

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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, Rio de Janeiro, Brazil](#)
Works as a lead developer in the R&D team. 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 that gives the company a competitive advantage. Created code 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.
- 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 IEEEExtreme team. GPA: 4.0.
- 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.

📌 Other Info

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