JuanLopes
Software Engineer

Lives in
Rio de Janeiro, Brazil

Contact
me@juanlopes.net
+55 21 99317 4772

Web
juanlopes.net
github.com/juanplopes
twitter.com/juanplopes
stackoverflow.com/u/1327235

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
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 part of the University's official IEEExtreme 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 — **IEEEXtreme 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.

Last updated at June 21st, 2017.