



# Juan Lopes

## Software Engineer

### Lives in

Rio de Janeiro, Brazil

### Contact

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### Web

juanlopes.net  
github.com/juanlopes  
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### Programming

Java ★★★★★

C# ★★★★★

Backend ★★★★★

Algorithms ★★★★★

Compilers ★★★★★★

JS ★★★★★★

Frontend ★★★★★★

Python ★★★★★★

C++ ★★★★★★

### Languages

Portuguese ★★★★★★

English ★★★★★★

Spanish ★★★★★★

## Experience

since 2011

### Software Engineer, R&D

Intelie

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, an 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 at several projects as lead programmer. Wrote the company's main LOB applications framework, used in most projects. Worked in a large billing project for an European company, collaborating with tens of people all over the world. Went to Amsterdam a couple of times for that project.

## Education

since 2014

### Master's Degree in Computational Sciences

UERJ

Researched on probabilistic data-structures, published some papers about it. Currently writing a dissertation summarizing the research so far, and introducing a novel graph representation that may allow the use of those structures to reduce space-complexity for probabilistic representation of some graph classes.

2006–2013

### Bachelor's Degree in Informatics & Information Technology

UERJ

Focused on Algorithms and Data Structure-related classes. This led me to participate in six editions of the ACM-ICPC, being South-American finalist in five of them. Graduated with a monograph on the Polynomial-Time Nature of Regular Expressions, evaluating the theory against industry-standard implementations.

## Other Info

since 2013

### Speaker at QCon SP

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.

since 2014

### Speaker at QCon Rio

Talks

(2015) Does Lucene Scale?  
(2014) PIPES: A Language for Distributed Complex Event Processing.

since 2013

### IEEEExtreme 24-Hour Programming Competition

Contest

1<sup>st</sup> place in Brazil (2013) and 36<sup>th</sup> place worldwide (2015).

2008–2013

### International Collegiate Programming Contest (ACM-ICPC)

Contest

Five times south-american finalist (all except 2010).