

# Hi, I'm Juan Lopes

November 26, 2015

*Brazilian, lives in Rio de Janeiro.*

*Interested in algorithms, optimization, programming contests and serif typefaces.*

*B.S. in Computer Science; M.S. candidate in Computer Science.*

*Writes high-performance Java code at Intelie for the last 4 years.*

*Wrote beautiful C# code at Living Consultoria for the 4 years before.*

## What excites me?

I love code in all its forms. Love writing and love reading. I'm a programmer since I was 9, when discovered that QBasic used to come with Windows 95.

During the undergrad years, I had the chance to expand my interest in **algorithms**. There I was introduced to **programming contests**. I attended to six editions of **ICPC** (2007 to 2012), being **south-american finalist** in five of them. Also went to several editions of the **IEEEExtreme** competition. Our best results were **1<sup>st</sup> place in Brazil** (2013) [1] and **36<sup>th</sup> place in the world** (2015) [2].

I like **Coding Dojos** a lot. Here in Rio, I help to organize the DojoRio [3] meetings. We probably have the most active Brazilian dojo community. As of today, there were **more than 250 sessions** (once a week, every wednesday). I think Coding Dojos are a great opportunity to try new languages, new problems and talk to great programmers.

Recently, as a part of my work at *Intelie*, I've been studying (and coding) a lot about **time-series analysis** and **real-time optimized algorithms**. As a result, I've been giving talks about it, from which I highlight the latest about **probabilistic data structures** (*HyperLogLog*, *Count-Min sketch*, etc.) at QCon São Paulo 2013 [4]. This is also the main topic of my master's thesis.

Last, but not least, I have a strong presence in many programming communities, not only Java or C# ones. My **GitHub** [5] can show that I'm not shy to try new technologies. I also have **6,000+ reputation** points on **StackOverflow** [6], being half of this in the *algorithms* tag.

## Where did I work?

### **Intelie** (August 2011 – Now)

I currently work in the R&D team at **Intelie**, a company focused in building tools for operation intelligence. There I write a lot of **Java** code. As a former C# programmer, I'm surprisingly liking it.

Most systems I write today use heavy backend algorithms to analyze real-time data streams at a rate of a **few terabytes per day**. Most of it would be impossible if we didn't use **distributed algorithms**.

There I also had a very particular experience with **Lucene**, adapting its core to support indexing tens of billions of log messages per Lucene index, with sub-second distributed query, for the largest brazilian media group.

## Living Consultoria (December 2007 – July 2011)

At **Living Consultoria** I was a mix of **lead developer** and **architect**. The focus of the company was Microsoft technologies, so I spent most of my time writing **C#**, but I also worked with **Ruby** (on and off Rails) and some **PHP**. There I played a major role implementing the first projects using **Scrum** in the company (back in 2008, when it was still cool); participated in some **international projects**, collaborating with teams from many countries. Traveled to Amsterdam a couple of times, because of this.

## Where did I study?

Today I'm a **Master's candidate** in **Computer Science** at **UERJ** (en: *Rio de Janeiro State University*). It is one of the largest Brazilian universities. I'm currently writing about **probabilistic data structures**.

I also have acquired my Bachelor's degree in Computer Science at **UERJ**. Finished in 2013. Actually I finished the regular course in 2009, but stayed there to be able to compete in the ICPC. I graduated with an essay about **polynomial-time regular expression implementations** [7].

## How to find me?

As a true geek, I like smartphones. Android, mostly. So I will almost always have my phone with me, You can call me at **(+55) 21 99317 4772**.

Probably the best way to find me is my e-mail [[me@juanlopes.net](mailto:me@juanlopes.net)]. I'm also pretty active on Twitter [[@juanlopes](https://twitter.com/juanlopes)].

## Links

Some links are in portuguese.

1. [IEEEExtreme 7.0 results by country](#)
2. [IEEEExtreme 9.0 webpage \(results pending\)](#)
3. [DojoRio.org](#)
4. [QCon São Paulo 2013: Analyzing and Reducing Big Data Streams in Real-Time](#)
5. [github.com/juanlopes](https://github.com/juanlopes)
6. [stackoverflow.com/users/1327235/juan-lopes](https://stackoverflow.com/users/1327235/juan-lopes)
7. [github.com/juanlopes/pyrex](https://github.com/juanlopes/pyrex)