

# Hi, I'm Juan Lopes

March 11, 2014

*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 2 1/2 years.*

*Wrote beautiful C# code at Living Consultoria for almost 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 in the 2013 edition of the **IEEEEXtreme** contest, my team and I won the **1st place in Brazil** [1].

I like **Coding Dojos** a lot. Here in Rio, I help to organize the DojoRio [2] meetings. We probably have the most active Brazilian dojo community. As of today, there were **almost 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** at QCon São Paulo 2013 [3].

Last, but not least, as every passionate programmer, I write code for fun in my free time. You can see most of the recent works in my **GitHub** [juanlopes]. Actually, it says more about me than any of these words.

## Where did I work?

### **Intelie** (August 2011 – Now)

I currently work 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 it's 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. Given my current experience, my dissertation will probably be about **distributed stream processing algorithms**.

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** [4].

## 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. [DojoRio.org](#)
3. [QCon São Paulo 2013: Analyzing and Reducing Big Data Streams in Real-Time](#)
4. [github.com/juanlopes/pyrex](https://github.com/juanlopes/pyrex)