

# João DUARTE

## PERSONAL DATA

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## SUMMARY

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I'm a software engineer looking for challenging problems that can be solved by the "right set of tools". I have a deep interest in applying real-time event processing techniques (or creating new ones) that can help both machines and human beings understand their ecosystems better, make informed decisions and promote enaction. I also enjoy programming in Ruby and leveraging it for quickly prototyping, bootstrapping and developing solutions.

## WORK EXPERIENCE

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2008 - PRESENT *CEP Engineer* at **PT Comunicações**, Lisboa

- Core developer TODO
- SCRUM Master

2007 - 2008 *Intern developer* at **PT Comunicações**, Lisboa

- Helped to develop core functionality in an IT infrastructure monitoring solution

2004 - 2005 *Trainee* at **INESC-ID**, Lisboa

- Exploratory work involving RFID, Bluetooth and Microsoft .NET compact framework

## EDUCATION

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2003 - 2007 **Instituto Superior Técnico, Universidade Técnica de Lisboa**, Lisboa  
Bachelor of Science in SOFTWARE ENGINEERING

2007 - 2009 **Instituto Superior Técnico, Universidade Técnica de Lisboa**, Lisboa  
Master of Science in SOFTWARE ENGINEERING

## LANGUAGES AND FRAMEWORKS

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Ruby / JRuby | Developed several components for an event processing stack, such as event preprocessors, input/output adapters for a correlation engine

C | Formal training in college (complex data structures and graph traversing algorithms).

## PLATFORMS AND TECHNOLOGIES

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CEP (Esper)	Constructed a tiered QoS evaluation model for IT architectures Wrote a set of alarms for detecting in real-time individual and common malfunctions of telco customers with high throughput requirements (1000 events/s) Mentored an employee
Linux / Unix	Extensive use of Linux for both personal and enterprise use (distributions: RHEL, RedHat, Debian, SlackWare, SuSE, ArchLinux)
Databases	MySQL, MongoDB
Web Servers	Sinatra for small web applications and REST APIs.
Revision Control	Used CVS in college, SVN in both college and work, using git for the last 3 years whenever possible

## CERTIFICATES

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2011    Certified SCRUM Master (CSM)

## INTERESTS AND ACTIVITIES

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