

# ANTÓNIO ALEGRIA

## PERSONAL DATA

*Born in Lisbon, Portugal, February 6, 1985*

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## PROFILE

Software Engineer who likes to be at the intersection of business and technology. Passionate and experienced in designing and implementing “right-time” Business Activity Monitoring applications using Complex Event Processing. Thrilled to learn, improve the status-quo and solve challenging problems using state-of-the-art tools. Skilled in Java but loves leveraging (J)Ruby’s expressiveness to quickly build robust, maintainable and elegant systems.

## WORK EXPERIENCE

- Senior Software Engineer*
- Fev 2012 – Current*      FeedZai, Lisbon
- Currently in the Research and Future Product Development team.
- Software Engineer*
- Jul 2010 – Feb 2012*      Portugal Telecom (PT) – SAPO.pt, Lisbon
- Worked in the Big Data team developing event processing systems and in the Mobile Apps team as an Android developer.
- Highlights (Big Data):
- Designing and developing an Esper-based automatic metric aggregator for an in-house KPI management system.
  - Developing SAPO Alerts - a domain-independent real-time event subscription and filtering platform used by PT and 3<sup>rd</sup> parties (Java, XML, PostgreSQL, Netty, SOAP).
- Highlights (Mobile):
- Implemented and shipped over 5 Android Apps including SAPO News – SAPO’s flagship App with over 70,000 users.
  - Spearheaded Scrum implementation.
  - Proactively managed and coordinated a large part of the SAPO News mobile Apps project.
- Software Engineer*
- Sep 2008 – Jul 2010*      Portugal Telecom (PT), Lisbon
- Core developer of realtime Business Activity Monitoring system - Pulso - using Complex Event Processing (CEP).
- Highlights:
- Designed and implemented core CEP system in Pulso (Esper, JRuby, ActiveMQ, Starling, MySQL).
  - Designed and implemented domain-independent BAM patterns and rules for business process and application monitoring solutions (Esper).
  - Implemented tens of real monitoring scenarios for several mission-critical business processes and applications in PT (Esper, Ruby).
- Software Engineer Intern*
- Sep 2008 – Jul 2010*      Portugal Telecom (PT), Lisbon
- Developed and applied MSc research in PT. Results were tested in three real-world Information Systems Architectures. Helped development of in-house network application and infrastructure discovery and management system.
- Highlights:
- Designed, implemented and applied an automatic IT architecture verification and discovery system that uses deep passive traffic analysis and rule-based logic inference to run a “fact-check” on a proposed IT architecture model (Logtalk/Prolog, Ruby, C and an assortment of network traffic analysis tools).
  - Designed and implemented a wide range of deep packet analysis agents for enterprise application identification and error detection (C, Ruby, PADS).

*Intern*      *Sep 2008 – Jul 2010*      INESC-ID - Distributed Systems Group, Lisbon  
Researched and implemented ad-hoc (mesh) network applications for mobile devices using Bluetooth, RF-ID and Microsoft .Net Compact Framework.

#### HIGHER EDUCATION

*MSc in Computer Engineering*      *November 2009*      Instituto Superior Técnico, Lisbon  
Major: Software Engineering · Minor: Distributed Systems  
Thesis: “Automatic Verification of IT Architecture Models for Networked Information Systems”  
Thesis Grade: 19/20 · GPA: 16/20

*BSc in Computer Engineering*      *July 2007*      Instituto Superior Técnico, Lisbon  
Major: Software Engineering · Minor: Distributed Systems · GPA: 16/20

#### TRAINING AND CERTIFICATION

*July 2011*      Lisbon Machine Learning School  
Google-sponsored international summer school.

*January 2011*      Scrum Alliance – Certificate Scrum Master  
Institution: VANTAGEM+

*October 2009*      Initial Pedagogical Training for Trainers  
Institution: PORTUGAL TELECOM INOVAÇÃO, SA

*June 2002*      Certificate of Proficiency in English  
Institution: UNIVERSITY OF CAMBRIDGE, LOCAL EXAMINATIONS SYNDICATE

#### PUBLICATIONS

**ALEGRIA, A., AND VASCONCELOS, A. 2010.** IT Architecture Automatic Verification: A Network Evidence-based Approach. In *Proceedings of the Fourth IEEE International Conference on Research Challenges in Information Science*, RCIS 2010, Nice, France, May 2010, LOUCOPOULOS, P. AND CAVARERO, J.L., Eds. 1-12

#### CONFERENCES & EVENTS

*Speaker*      *November 2011*      Codebits V, Lisbon  
Presented talk *Complex Event Processing with Esper*.  
Video: <http://j.mp/cepvideo2011> · Slides: <http://j.mp/cepslides2011>

*May 2011*      Startup Weekend, Coimbra

*Speaker*      *May 2010*      RCIS 2010, Nice, France  
Presented paper *IT Architecture Automatic Verification: A Network Evidence-based Approach*.  
Slides: <http://j.mp/rcis2010slides>

## MAIN SKILLS & INTERESTS

<i>Programming Languages</i>	Ruby and JRuby (including Java integration) · Java · C · Prolog/Logtalk · Scala
<i>Platforms &amp; Libraries</i>	Esper · Sinatra · Android · ActiveMQ, Starling/Kestrel, SAPO Broker
<i>Databases</i>	MongoDB · MySQL · PostgreSQL
<i>Languages</i>	ENGLISH · Fluent (Certificate of Proficiency in English)
	SPANISH · Competent
	FRENCH · Average
	JAPANESE · Basic
	PORTUGUESE · Mother Tongue
<i>Interests</i>	CEP · BAM · Ruby · Scrum · Product Design · Startups

May 8, 2012