

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

Software Engineer *Current* Portugal Telecom (PT) – SAPO.pt, Lisbon
Currently in the Big Data team developing event processing systems. Worked on the Mobile Apps team as an Android App 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 3rd 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, Lisbon
Core developer of realtime Business Activity Monitoring system 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, Lisbon
Developed and applied MSc research in PT where results were tested in three real-word Information Systems Architectures. Helped development of an in-house network application and infrastructure discovery and management system.

Highlights:

- Designed, implemented and applied an automatic IT architecture verification and discovery system that used 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 (PADS, Ruby, C)

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

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

May 2011 Startup Weekend, Coimbra

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

MAIN SKILLS & INTERESTS

<i>Programming Languages</i>	Ruby and JRuby (including Java integration) · Java · C · Prolog/Logtalk · Scala
<i>Platforms & 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

January 5, 2012