João Tiago de Jesus Elias Ferreira

Software Engineer

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Currently

I'm a software developer and team leader at e.near, working with Scala and related technologies. My current interests are distributed systems and statically typed programming languages.

Experience

Team leader	2015	**Sphonic** Design and development of several projects related to "Know your customer" and fraud detection. Used technologies include Scala, Spray, Akka, Cassandra, Kafka, Elasticsearch, Docker, Google Cloud, AWS
Senior developer	2014	**Instafin** Design and development of SaaS microfinance system for Oradian. Used technologies include Scala, Play! Framework, Elasticsearch, and PostgreSQL
Senior consultant	2014	**Victoria Seguros** Design and development of a generic insurance simulator for Victoria Insurance company. Used technologies include Java and Javascript
Senior consultant	2012-2014	**Banco de Portugal** Design and development of a collaboration system that allows Legal Enforcement Department send, receive and analyze periodic reports and plan and manage inspective actions processes in supervised institutions. Used technologies include C#, ASP.net, Solr, Javascript, and Sharepoint
Junior consultant	2012	**Abu Dhabi Media Company** Development and maintenance of the news site www.thenational.ae. Used technologies include Java, Javascript, and OpenText WEM.
Junior consultant	2011	**Caixa Geral de Depósitos** Development of a new web portal for managing contracts related with the installation of credit card payment terminals. Technologies used include ASP.net, WCF Services, and Sharepoint
Junior consultant	2009-2011	**Celfocus** Development of an Order Management Framework for the Telco industry. Tecnologies used include: Java, JMS, Spring and Integration platforms (Tibco and webMethods)

Employment

2014-	**e.near** senior software engineer and team leader
2011-2014	**VILT** software engineer
2009-2011	**Celfocus/Novabase** software engineer
2009-2009	**INESC-ID** researcher

Education

2007-09	**Instituto Superior Técnico, (Portugal)** Master in Information Systems and Computer Engineering
2004-07	**Instituto Superior Técnico, (Portugal)** Degree in Information Systems and Computer Engineering

Training

2013	**Coursera** Functional Programming Principles in Scala
2012	**MongoDB** MongoDB for Developers

Presentations

2015	**ENEI** Workshop "A Scala Introduction"
2015	**SINFO 23** Workshop "A Scala Introduction"
2015	**Scala Portugal Meetup & Java User Group** Introduction to the Play Framework

Publications

2012	**Ferreira, J.**, Leitão, J. and Rodrigues, L. A-OSGi: a framework to support the construction of autonomic OSGi-based applications. International Journal of Autonomous and Adaptive Communications Systems, 5(3), pp.292-310.

Technical skills

Scala

	Scala	Play	Scalaz
	Akka	Slick	Cats
	Spray	Shapeless	Kamon

Java

| | Java J2EE | Hibernate | |
| | Spring Framework | GWT | |

Javascript

| | Jquery | MVC and SPA Frameworks | HTML and CSS |

Databases

| | SQL (PostgreSQL/SQL Server/Oracle) | Elasticsearch | MongoDB |
| | | Cassandra | |

Cloud

	AWS EC2	Google Cloud Compute Engine	Google Pub/Sub
	AWS RDS	Google BigQuery	
	AWS S3	Google Dataflow	

Other

| | Docker | CI tools (Jenkins, Drone) | |
| | Vagrant | Scheme, Haskell | |