ISAAC PEREIRA

SENIOR BACKEND SOFTWARE ENGINEER

INFO

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DATE OF BIRTH

1987-03-16

NATIONALITY

Brazilian

SOCIAL PROFILES

Linkedin
linkedin.com/in/pereirazc

Twitter
twitter.com/pereirazc

Github (Personal)
github.com/pereirazc

Github (Side project)
github.com/pextralabs

SKILLS

JBoss Drools

Java

Scala

Play Framework

Akka

JPA

Design Patterns

Gitlab CI

Docker

DigitalOcean

Internet of Things

Wireless Sensor Networks

Android Development

PROFILE

I'm a Software Engineer with 8 years of development experience and R&D skills, soon-to-be *MSc* in Computer Science. I've been building backend services for the insurance market since 2010 and more recently for the IoT market on my own company (Multicast) started as a side project.

EMPLOYMENT HISTORY

Co-Founder and CTO, Multicast IoT
Vitória, ES, Brazil
Oct 2015 – Present

Multicast is a young IoT company who provides an end-to-end solution for monitoring products, equipment, supplies, environments or whatever for analytics and automation of business and industrial activities aided by sensor-data. A service so-called *Multicast SenseUp*.

For the *SenseUp* my role has been of proposing and delivering features for the mobile apps and the analytics dashboard, designing app and sensor-faced APIs, and mainly, the development of a scalable data-reasoning cloud engine architecture to handle complex integration/automation rules using technologies like Akka, Play Framework and Drools/SCENE.

Leading a freelancer-based team towards the development of the *SenseUp* apps (PWA, iOS and Android).

Systems and Data Analyst (Part-time), Evológica Tecnologia e Pesquisa
Vitória, ES, Brazil
Feb 2011 – Present

Evológica and, mainly, its branch **Idexa** have expertise in the modeling, development, and support of Insurance Systems.
My activities and achievements at *Evológica* involves:

- Backend Framework development/support (**Curio** - Evológica's in-house framework)
- Leading dev teams towards development of products for the insurance market, like eSegurado
- Acting as Mobile Software architect, successfully integrating a multiplatform (Android, iOS) code base under the same conceptual architecture - MVVM, Reactive Clean Architecture (eSegurado)
- DevOps experience engineering CI/CD workflows for an automated QA environment (*Docker, Rancher, Nexus, Gitlab CI*)
- Designing of internal Dev Tools for development experience
- Team training and mentoring (*Git branching Workflows*, *DevOps Tools*, *Curio*, *Design Patterns*, *Java Android Dev*, *Functional Programming*, *Angular 1.x*)

OSS PROJECTS

Project Leader
Mar 2012 – Present

Architect and L*ead developer* of **SCENE** (https://github.com/pextralabs/scene-platform) a rule-based situation recognition platform on top of the JBoss Drools rule engine.

EDUCATION

Federal University of Espirito Santo, Master of Informatics
Vitória, ES, Brazil

Feb 2017 – Present

Research on *Context-aware* application development techniques, *Quality of Context*(QoC) and *Situation-awareness*.
Architect and Lead developer of the Scene Platform, a rule-based framework for situation-aware application development.
Co-author of 4 research papers and a book chapter about those subjects. One of them (A rule-based platform for situation management) awarded with the *Best Paper award* at the IEEE CogSIMA 2013 Conference.

Federal University of Espirito Santo, Bachelor of Computer Science
Vitória, ES, Brazil

Feb 2006 – Feb 2012

COURSES

Functional Programming in Scala Specialization, École Polytechnique Fédérale de Lausanne via Coursera
Feb 2016 – Feb 2017

SCIENTIFIC PUBLICATIONS

Rule-Based Support for Situation Management
Jan 2016

book chapter for Springer's Fusion Methodologies in Crisis Management - 2016

An Infrastructure for Distributed Rule-based Situation Management
San Antonio - TX, USA

Feb 2014

conference paper for IEEE International Multi-Disciplinary Cognitive Methods in Situation Awareness and Decision Support (CogSIMA) - 2014

Um Serviço de Gerenciamento de Qualidade de Contexto em Redes de Sensores sem Fio
Porto Alegre - RS, Brazil

Nov 2013

conference paper for Conferência Ibero Americana de Computação Aplicada (CIACA) - 2013

A Rule-based Platform for Situation Management
San Diego - CA, USA

Feb 2013

conference paper for IEEE International Multi-Disciplinary Cognitive Methods in Situation Awareness and Decision Support (CogSIMA) - 2013

A Model-Driven Approach to Situations: Situation Modeling and Rule-Based Situation Detection
Sep 2012

Beijing, China

<u>conference paper</u> for IEEE International Enterprise Distributed Object Computing Conference (EDOC) -2012