Pedro A. A. Furlanetto

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Passionate about principled functional programming as the means to achieve high quality, reusable, and extensible software. Programming Languages Theory curious. Advocate of letting the computers do what computers do best and letting humans do what humans do best.

Recent Experience

x.ai 02/2015 - 09/2018 Senior Software Engineer, Scala Programmer, principled FP advocate and teacher.

- Scala, ScalaZ, MongoDB, various AWS services, Javascript, bits of Typescript.
- Major role in the development of Amy's AI decision making.
- Collaborated with multiple teams in all parts of the company in gathering requirements and developing product features and constant code base refactor and improvements.
- Construction of internal tools for data debugging.
- Implemented Circle CI and AWS code deploy for our main services.
- Other projects:
  - Haskell: Unbound variables finder for Javascript snippets (open source version is WIP).
  - Scala and Pegdown: Json projection path preserving DSL for extracting data from Json (open source in progress).

Sports195 02/2014 - 10/2014 Software Engineer, Scala programmer & code quality improver

- Scala, Playframework, Typesafe Slick, SQL, and ScalaZ.
- Construction of a code generator to map hundreds of Slick classes to its SQL counter parts.
- General maintenance of the Scala code base and optimization of Slick queries.
- Extensive refactoring of the code base to better maintainable Scala.
- Tutoring less experienced Scala developers.

RGFM 08/2012 - 07/2013 Software Engineer & founding partner

- Scala, ScalaFX, Playframework, Typesafe Slick, Javascript.
- Music classification and distribution platform.
- Development of the web frontend and backend:
  - Tools for DJs creating and maintaining play lists and customer website
  - Desktop client player featuring a in-house made DRM scheme.

Consulting 10/2011 - 07/2012

- Consultant, Orocast LLC - Scala and Android.

- – Multiple Android apps for various clients.
- VerbalizeIt - Phonegap, VoIP, Android and iOS - Human Translation through Mobile Phones. Android and iOS apps. Archived site

IDEAIS 02/2005 - 07/2011 Senior Software engineer

- Java, Hibernate, Struts2, Apache Solr, AWS, Spring, Javascript, Freemarker, SQLs including Oracle, SQL Server and MySQL, BEA Weblogic, BEA Integration, JSP.
- Managed the development and deployment automation of multiple iterations of the in-house built CMS and search engine system (Catalogo projects Press release).
- Search Engine Optimization on Solr for various products.
- Built the Helioscope Solr Querying and Editing tools to facilitate debugging the CMS.
- Requirement gathering for multiple greenfield projects.
- Tutored new hires on different levels, on product and tech.

2001 - 2005

- ASP, VB, VB.Net, PHP, Java, Linux/Windows sysops in multiple companies

Open source and community

- WebIDL parser and aspiring FFI generator for altjs languages - github
- Typesafe Slick performance comparison - github
- The Developer Conference 2015 FP and ScalaZ presentation - github - where I explore strongly typed FP, the expression problem, polymorphism and give a quick intro to ScalaZ.
- Hosted Rio Scala Enthusiasts Meetup group from 2012 to 2013
- Scalathon 2011 - invited presenter of Hacking Scaladoc and its Architecture
- Well connected in the Scala and Haskell community through social media and attendance of various conferences over many years

Education

- Post-Graduate - Distributed Systems Development and Management, e-IS Expert Program - Universidade Federal do Rio de Janeiro (UFRJ) - Núcleo de Computação Eletrônica (NCE) - 2007
- Universidade Estácio de Sá - System Analysis - 2005
- Graduation - Two years of Engineering at PUC-Rio - 1996
- High school with computing technical course - Instituto de Tecnologia ORT – 1995

Courses taken

- EdX Introduction to Functional Programming by Erij Meijer link
- At Coursera: FP in Scala, Reactive programming in Scala, Analysis of Algorithms and Machine Learning
- NICTA's FP Course github repo

Other interests

- Abstract Algebra, Type Theory, and Formal Methods and its use in FP
- Machine Learning curious
- Altjs Languages like Purescript and GHCJS
- FRP
- Learn to play the piano (Especially Erik Satie)