

Gabriel Candal

Curriculum Vitae

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Experience

Working

- 2015-* **Software Developer**, *SWEAR*.
- 2014-2015 **Co-Founder & Lead Developer**, *Trigonum*.
Responsible for the software development in a company focused on products for health professionals.
- Jul-Aug 2013 **Software Developer Intern**, *Critical Manufacturing*.
Integrated an agile team in order to develop an in-house utility tool to assist developers in testing. Comparing to the previous tool used for the same purpose, it ran 5x faster, besides providing information as structured XML and producing 3x smaller files.

Teaching Assistant

- Feb-May 2015 **Programming / Algorithm Design and Analysis**, *Faculty of Engineering of the University of Porto*, FEUP.
- Sep-Nov 2014 **ProjetoFEUP**, *Faculty of Engineering of the University of Porto*, FEUP.

Education

- 2011-2016 **Masters in Informatics and Computing Engineering**, *Faculty of Engineering of the University of Porto*, FEUP.

Skills

- Basic Haskell, Prolog
- Built stuff with **General purpose** (Scala, Python, Java, C/C++), **web** (Javascript, jQuery, node.js, AngularJS, Ruby on Rails, HTML/CSS, PHP), **databases** (PostgreSQL, MongoDB), **mobile** (Android), **other** (Unix, git, UML, algorithms)

Projects

- Actor Binary Tree Made a distributed binary tree implementation based on Akka's actors as part of Martin Odersky's MOOC on reactive programming. **Scala, Akka**
- GlinttSupport In collaboration with Glintt, built a call-center-like website which aggregated Facebook and Twitter feeds of a given company, as well as a custom 1-on-1 chat, and presented them as unresolved issues for the operator to solve. **AngularJS, node.js**
- Interpreters As a part of UW's MOOC on programming languages, built two interpreters: one for geometric expressions and the other for a MUPL (Made Up Programming Language, which was a subset of Racket which included higher-order functions). **StandardML, Racket**
- Distributed Backup Distributed and decentralized application that provides file backup capabilities, making use of UDP's unreliable message-passing. **Java**
- Regex compiler A compiler from PCRE regex to a C++/Java program which matches that regex to user input, based on a validation via DFA. **Java**
- Beef A betting website for football leagues. **jQuery, Ruby on Rails**

CoastWeather	Android app that provides a way for users to evaluate the weather at portuguese beaches with some social networking features. PHP, Python, Android
NeuralNet	An OO implementation of a feed forward backpropagation neural network. Java
Asteroids	A game which runs on top of Minix, which involved programming every devices' interface (timer, keyboard, mouse, VESA graphics). C/C++
Trust	Agent-based application to compare several trust model's behavior under different scenarios. Java
Via Verde	A formal model for Portugal's highways toll system. VDM++

Extra Courses and Certificates

Aug 2015	CS190.1x: Scalable Machine Learning , <i>edX</i> , BerkeleyX.
Feb 2013	CS169.1x Software as a Service I , <i>edX</i> , BerkeleyX.
Feb 2015	CS169.2x Software as a Service II , <i>edX</i> , BerkeleyX.
Dec 2014	Programming Languages , <i>Coursera</i> , University of Washington.
Mar 2015	Algorithms: Design and Analysis, Part 1 , <i>Coursera</i> , Stanford.
May 2015	Algorithms: Design and Analysis, Part 2 , <i>Coursera</i> , Stanford.
Nov 2013	Functional Programming Principles in Scala , <i>Coursera</i> , EPFL.
May 2014	Certificate in Advanced English , <i>University of Cambridge</i> .
Dec 2014	FP101x Introduction to Functional Programming , <i>edX</i> , DelftX.
Oct 2014	M101JS: MongoDB for Node.js Developers , <i>MongoDB, Inc.</i> .
Jul 2015	CS100.1x: Introduction to Big Data with Apache Spark , <i>edX</i> , BerkeleyX.
2013-*	13 other MOOCs , <i>Coursera</i> , <i>edX</i> and <i>Udacity</i> .

Other

Volunteer	DotA-League's Junior Admin, Codecademy, INForum 2014
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