

# Igor Duarte Cardoso

## Basic Data

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Degree: Master of Science in Computer and Telematics Engineering  
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## Objectives

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My short-term objectives are currently to keep working on the fields of Network Virtualization and Cloud Computing (IaaS) against projects like OpenStack, as a Software Engineer, preferably doing research.

I want to take part in the evolution of existing (and development of new) telecommunication technologies and core systems, learning and improving day after day.

## Education

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- 2014 Master of Science in Computer and Telematics Engineering,  
**Universidade de Aveiro**, Aveiro, Portugal,  
Dissertation: “Network Infrastructure Control for Virtual Campus”,  
Integrated Master’s includes both Bachelor’s and Master’s degrees:  
Degree with a broad Computer Science foundation and multiple practical projects.  
*Final grade: 16 out of 20.*
- 2008 High School,  
**Agrupamento de Escolas da Guia**, Guia, Portugal:  
*Final grade: 18 out of 20.*

## Scholarships and Certificates and Awards

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- 2014 Contribution to the extra-curricular mobile Android app ActUA  
2013 First place on a University’s Mobile App Development challenge awarded by Blip.pt  
2011 Research Integration Scholarship (12-month) at IEETA, financed by FCT  
2008 Top High School finalist.

## Computer Skills

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- Basic Experience: OpenDaylight, OpenFlow, Ruby, C, C++, ASP.NET, PHP, JavaScript, Objective-C, iOS, bison, MIPS assembly, x86 assembly, Dansguardian, Squid3, Jekyll
- Intermediate Experience: OpenStack, Java, git, Python, bash, Open vSwitch, OpenWrt, Android, C#, SQL, HTML, Cisco IOS, GNU/Linux, Vim,  $\text{\LaTeX}$ , Jenkins, GlassFish, GNS3, UML, Excel

## Work Experience

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<i>Current</i> October 2014	<b>Researcher and Software Engineer</b> <b>Instituto de Telecomunicações</b> Given the experience I acquired on OpenStack during my Master's Dissertation and the related work I did during it, I was invited to stay at Instituto de Telecomunicações doing research related to Network Functions Virtualization (NFV). There, I kept working on OpenStack although initially not upstream. Then started making contributions to the Group-Based Policy project for OpenStack. Most of my work, though, has been around other aspects of NFV: automating configuration of Virtual Network Functions (VNFs), improving and discussing the Traffic Steering implementation to meet the purposes of Service Function Chaining (SFC), testing and integrating other implementation artifacts of the team.
<i>Current</i> May 2013	<b>Developer, Designer and Marketeer</b> <b>Wrkout</b> Not really a job, but an amazing work experience. Wrkout is a mobile Android app which I've created. By dealing with multiple aspects related to developing, publishing and monetizing the app by myself, I have learned plenty. This project turned product also teaches me exactly why I should be working in a team.

## Languages

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English:	Fluent
Portuguese:	Mothertongue
Spanish:	Basic Understanding

## Interests and Activities

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Network Virtualization  
Software  
Software-Defined Networking  
Cloud Computing  
OpenStack  
GNU/Linux  
Open-Source  
Technology, Gadgets  
Brainstorming

## Publications

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- 2015 Cardoso, I., Barraca, J. P., Goncalves, C., Aguiar, R. L.:  
"Seamless integration of Cloud and Fog networks".  
1st IEEE Conference on Network Softwarization (NetSoft 2015).
- 2014 Paulo Dias, Tiago Sousa, Joao Parracho, Igor Cardoso, Andre Monteiro, Beatriz Sousa Santos:  
"Student Projects Involving Novel Interaction with Large Displays".  
IEEE Computer Graphics and Applications, vol. 34, no. 2, pp. 80-86, Mar.-Apr., 2014.
- 2014 Tiago Sousa, Igor Cardoso, João Parracho, Paulo Dias, Beatriz Sousa Santos:  
"DETI-Interact: Interaction with Large Displays in Public Spaces Using the Kinect".  
HCI 2014 - 16th International Conference on Human-Computer Interaction: 196-206.
- 2012 Cardoso, I., Dias, P., Sousa Santos, B.:  
"Interaction with large displays in a public space using the Kinect sensor".  
20 Encontro português de Computação Gráfica - EPCG 2012, pp. 81-88 (2012).

## Contributions

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I have made upstream contributions to the Group-Based Policy project for OpenStack and the OpenStack Operations Guide. I have made other contributions to Open-Source software that are public but not (yet) upstream, including irssi, Yakuake and OpenStack. I have also developed other simple side projects in the past, some of them available at my GitHub. I have also made local contributions in the context of GLUA.

## Presence

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<i>ATNoG</i>	Advanced Telecommunications and Networks Group
September 2013	I became associated with ATNoG as part of my Master's Thesis. This group is established inside Aveiro's pole of Instituto de Telecomunicações.

<i>GLUA</i>	University of Aveiro's Linux Group
July 2011	Member of the University of Aveiro's Linux Group (Grupo Linux da Universidade de Aveiro).

## Events

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<i>As an attendee and meeting participant</i>	OpenStack Summit 2015, Vancouver
<i>As an attendee</i>	OpenStack Summit 2014, Paris
<i>As different roles</i>	Other events, conferences and challenges less related.