








JOÃO NOGUEIRA

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KEY EXPERTISE

Fast learner, flexible and proactive team-member with the following experience and characteristics:

- Large-scale systems
- Multiple program. languages
- Clean code, tests, CI/CD
- International teams & projects
- Agile Scrum teams
- Autonomous and self-driven

INDUSTRY EXPERIENCE

Senior Full Stack Developer

Bosch Thermotechnology

 Aug 2017 – Present  Aveiro, Portugal

- **Deployment and operation of Azure cloud services** in a **Continuous Integration / Continuous Deployment** fashion
- Cross-functional development, in **backend and frontend code**, working in **Agile Scrum** within an **international team** on everything that might be needed to push the project forward
- Mentoring and supporting team members

React Typescript Bootstrap C# .Net (Core) MVC
WebApi REST OAuth/OpenId Swagger SQL Azure
Dep. Injection VSTest Serilog Seq Entity Framework
JIRA VSTS Scrum TeamCity SonarQube Git

Software Developer (Research & Development)

Altice Labs (Formerly Portugal Telecom Inovação)

 Jun 2012 – Aug 2017  Aveiro, Portugal

- Major contributions to MEO IPTV **large scale production services**, defining their **architecture and key algorithms** to ensure **performance and scalability** goals – e.g. developer & architect of MEO Catchup-TV App, MEO Search and MEO VOD Store, with several million users every month
- Development and curation of reusable libraries / components in order to speedup new applications development, reduce production bugs, and **promote clean code and good programming practices**
- **Planning, management, and coordination responsibilities in large national & international projects** – e.g. Celtic-Plus NOTTS (8.5 Million € budget on 6 different countries) and Ultra TV

C# .Net REST OData IIS SQL Mediaroom IPTV
OTT MPEG-DASH Smooth Streaming C++ C R
Python Machine Learning Big Data RStudio CDNs
Apache Traffic Server Nginx Varnish HAProxy Svn
Windows Server CentOS Ubuntu VMWare ESXi

LIFE PHILOSOPHY

"A journey of a thousand miles begins with a single step."

EDUCATION

PhD in Electrical and Computer Engineering

Aveiro University

 2012 – 2017 (Summa Cum Laude)

 Aveiro, Portugal


Over-The-Top Multimedia Delivery: A Catch-Up TV Case Study

Dual PhD Student

Aveiro & Carnegie Mellon Universities

 2011 – 2012 (A on coursework)

 Aveiro, Portugal

 Pittsburgh, PA, USA

Dynamic spectrum access technologies, and self-* networks.

Master in Electronics and Telecommunication Engineering

Aveiro University

 2005 – 2010 (18/20)


 Aveiro, Portugal

Demonstrator of Network Virtualization in Telecommunications Operators

Erasmus

Eindhoven University of Technology

 2009 (9/10)

 Eindhoven, Netherlands

LANGUAGES

Portuguese

English

Spanish

French

Italian



INDUSTRY EXPERIENCE (CONT.)

Software Developer (Trainee Internship)

Altice Labs (Formerly Portugal Telecom Inovação)

📅 Aug 2010 – Sep 2011

📍 Aveiro, Portugal

- Successfully designed & developed a Network / Cloud DVR proof-of-concept, **working autonomously** and proposing novel solutions to its significant technical challenges on client and server implementations – supporting mobile devices (Android & iOS)
- Key insights and technical solutions were later embedded into MEO's Catch-up TV product

C# .Net WebForms SmoothStreaming Mediaroom IIS

Software Developer (Curricular Internship)

Altice Labs (Formerly Portugal Telecom Inovação)

📅 Sep 2009 – Aug 2010

📍 Aveiro, Portugal

- Fully responsible for the development of a Virtual Network Management, Mapping & Discovery Software in the scope of the European project 4WARD (FP7)
- Proved the viability of automated network virtualization and supported subsequent research projects such as SAIL (FP7)

Java SWT C Debian XEN libvirt L^AT_EX

KEY PUBLICATIONS

Catch-up TV forecasting: enabling next-generation over-the-top multimedia TV services

J. Nogueira, L. Guardalben, B. Cardoso, and S. Sargento
Multimedia Tools and Applications, Springer, 2018

Altice OTT Video Strategy

J. Nogueira and B. Cardoso
White Paper, Altice Labs, 2017

Over-The-Top Catch-up TV content-aware caching

J. Nogueira, D. Gonzalez, L. Guardalben, and S. Sargento
Symposium on Computers and Communication (ISCC), IEEE, 2016

Catch-up TV analytics: characterization and consumption patterns identification on a production service

J. Nogueira, L. Guardalben, B. Cardoso, and S. Sargento
Multimedia Systems, Springer, 2016

Channel Selection Relying on Probabilistic Adjacent Channel Interference Analysis and Pattern Recognition

J. Nogueira and S. Sargento
Wireless Personal Communications, Springer, 2016

Thanks for reading my CV!

CERTIFICATIONS

Certified Scrum Master

Scrum Alliance - KnowledgeHut

📅 2015

Certified Trainer

Alexandre Sarmento Formação

📅 2011

(License 574201/2011)

Selection of lectured trainings:

- Microsoft Mediaroom Architecture;
- OTT Multimedia Delivery;
- Interactive TV Applications;
- Writing Clean Code.

Test of English as a Foreign Language

Educational Testing Service (ETS)

📅 2010

(112/120)

Graduate Record Examination

Educational Testing Service (ETS)

📅 2010

- Verbal Reasoning: 640/800
- Quantitative Reasoning: 800/800
- Analytical Writing: 4.0/5

Cisco Certified Network Associate

Cisco Systems

📅 2008

Modules:

- Network Fundamentals;
- Routing Protocols and Concepts;
- LAN Switching and Wireless;
- WAN Technologies.

SELECTED AWARDS



Celtic Plus NOTTS Project

2017 | Services' Excellence Award



It's App to you - Ubiwhere

2014 | Hackaton Winner



MEO Open Awards

2013 | Best interactive TV App



Eng. José Ferreira Pinto Basto Award

2010 | Best graduate student



Universidade de Aveiro Fellowship

2007 – 2010 | University's top-20



Calouste Gulbenkian Fellowship

2007 – 2010 | Great performance