

# Europass Curriculum Vitae

Surname / First names

Address

Telephone

Email

Nationality

Date of birth

Gender

**Trindade, João Paulo Pinto**

Rua Carvalho Serra, N.18 2ºESQ, 2800-044 Almada, Portugal

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trindade.joao@gmail.com

Portuguese

02-May-1984

Male

## Desired Position

Keywords

Android Developer

Java, REST, Git, Continuous Integration, Unit-Testing, Linux, Open Source

## Education and training

Date

Title of qualification awarded

Main activities

Classification

Dates

Title of qualification awarded

Principal subjects

Classification

Dates

Title of qualification awarded

Classification

Date

Title of qualification awarded

Organisation

Classification

### March 2008-November 2014

**PhD** in Information Systems and Computer Engineering at Instituto Superior Técnico.

Developed a routing protocol suited for large scale MANETs using bloom filters.

Main programming languages used: C, C++ and Python.

Completed with distinction.

### September 2005 to November 2007

**Masters** degree in Information Systems and Computer Engineering at Instituto Superior Técnico.

Main Specialization Branch: Enterprise Information Systems (SIE).

Secondary Specialization Branch: Networks, Applications and Services (RAS).

- Development of applications for distributed environments.

Main programming languages used: C, Java and C#.

17 of 20 points.

### September 2002 to July 2005

Bachelor of Science in Information Systems and Computer Engineering at Instituto Superior Técnico.

Main programming languages used: C, Java and Lisp.

14 of 20 points.

### October 2007

Certificated IPMA-D project manager.

Associação Portuguesa de Gestão de Projectos, IPMA associate.

138.79 of 200 points.

## Work experience

Date/Location	<b>From September 2014 to Present</b> / Milan, Italy
Occupation or position held	Developer in an Italian startup that provides a mobile app suggesting the best tariff plan in terms of price and signal quality. <ul style="list-style-type: none"><li>– Android Developer (Java/Gradle/Retrofit/Otto bus/Jenkins/Robolectric/Crashlytics/REST)</li><li>– Backend Developer (AWS/Docker/Github/RabbitMQ/Python/Redis/Memcache)</li><li>– Since March, CTO of a two developer team (SCRUM methodology/Hiring)</li></ul>
Website	<a href="http://walletsaver.com">http://walletsaver.com</a>
Date/Location	<b>From 2006 to 2014</b> / Lisbon, Portugal
Occupation or position held	Researcher at INESC-ID involved in international research projects <ul style="list-style-type: none"><li>– Developed kernel modules (C, Embedded Systems, Kernel, Linux)</li><li>– System administrator of the research group server (roughly 80 users) (Debian, Sysadmin, Bash, Debian)</li></ul>
Date/Location	<b>From 2006 to 2012</b> / Lisbon, Portugal
Occupation or position held	Teacher in IST university
Main activities and responsibilities	Lectured the laboratory lessons for the following courses: <ul style="list-style-type: none"><li>– Fault-Tolerant Distributed Systems (February 2012 to July 2012),</li><li>– Enterprise Systems Integration (February 2012 to July 2012),</li><li>– Independent Studies I and III (September 2011 to February 2012),</li><li>– Distributed Systems (February 2011 to July 2011),</li><li>– Digital Systems (September 2009 to February 2010),</li><li>– Digital Systems (September 2008 to February 2009),</li><li>– Computer Architecture (February 2006 to July 2006).</li></ul>
Date/Location	<b>October 2009 and March 2010</b> / Lisbon, Portugal
Occupation or position held	Teacher of POSI (Pós-Graduação em Sistemas de Informação), a postgraduate degree coordinated by Prof. José Manuel Tribolet.
Main activities and responsibilities	Lecturing students in computer network subjects. Describing network protocols and network infrastructure.
Date/Location	<b>September 2007 to February 2008</b> / Lisbon, Portugal
Occupation or position held	Junior Consultant at AGAP2.
Main activities and responsibilities	External Consultant at Portugal Telecom - Sistemas de Informação (PT-SI).
Date/Location	<b>July 2005</b> / Lisbon, Portugal
Occupation or position held	Intern at the Information Department of the Portuguese Air Force DINFA

## Projects

For an up-to-date complete list visit: <https://github.com/joninvski>

- **Even Better Password Maker** - Android app that creates unique, secure passwords. Published in Play store: <http://goo.gl/kj4g4d>. Code available at: [https://github.com/joninvski/even\\_better\\_password\\_maker](https://github.com/joninvski/even_better_password_maker)
- **Energy Times** - Android app to check the electric price plan according to the current time. Published in Play store: <http://goo.gl/ew2UFX>. Code available at: <https://github.com/joninvski/EnergyTimes>
- **MiaVita** - Implemented a kernel module for embedded systems operating on a wireless ad hoc sensor network. Code available at: [https://github.com/cnm/mia\\_vita/tree/master/interruption](https://github.com/cnm/mia_vita/tree/master/interruption)
- Several open source contributions:
  - \* Android: JakeWharton/hugo, JakeWharton/sdk-manager-plugin, amplitude/Amplitude-Android, MichaelEvans/ChromaHashView
  - \* Linux: Docker/machine, Darktable-org/darktable

## Personal skills and competences

Mother tongue

Self-assessment  
European level<sup>(\*)</sup>

English

## Portuguese

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient	C1	Proficient	C1	Proficient	C1	Proficient	C1	Proficient

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

## Social skills and competences

Phd Program in Information Systems and Computer Engineering students representative (2012/2013)  
4<sup>th</sup> and 5<sup>th</sup> year class president of LEIC-Taguspark IST (2006/2007)  
3<sup>rd</sup> year class vice-president LEIC-Taguspark IST (2004/2005)

## Organisational skills and competences

Organizing member in the national conference CRC 2009 (October 2009)  
Skills in project management (APOGEP/IPMA level D certified) (October 2007)  
Organizing member in the international conference ICOIN 2007 (January 2007)  
Founding Member of the Students Informatics Group NEIIST (2003)  
Community Section Director of NEIIST (2003)  
Organizing member of the 2<sup>nd</sup> Cycle of NEIIST lectures (2003)

## Other skills and competences

Open Water Diver Course, PADI (2003)  
Basic Life Support course (5 May 2007)  
Japanese language course (19 March to 2 June 2008)

## Driving licence

Portuguese Drivers licence, category B vehicle.

## Additional Information

Other certifications

Linux Professional Institute (LPI) Exam 101. (24 May 2008)  
Winner of the Lean Startup Machine Lisbon 2014 (July 2014)  
Winner of the TadHack Hackaton (June 2015)

Activities

Technical reviewer of the book *Learning Android Application Testing* by Packt Publishing (2015)  
Intern at the communication networks group of INESC-ID (September 2006 to November 2007)  
Development of a project with the Information Center of IST (CIIST) to create an application to monitor the various network equipments present at IST-Taguspark (July 2006)  
Speaker in the 2<sup>nd</sup> and 3<sup>rd</sup> Cycle of NEIIST Lectures about the VIM editor (2003 and 2004)

## Publications

**Routing on large scale mobile ad hoc networks using bloom filters**, João Trindade, Teresa Vazão, Ad Hoc Networks — Elsevier Journals (2014)

**A wireless sensor network for monitoring volcano-seismic signals**, Ricardo Lopes Pereira, João Trindade, *et al*, Natural Hazards and Earth System Sciences, European Geosciences Union Article (2014)

**Scalability of bloom filter based routing for large scale mobile networks**, João Trindade, Ricardo Lopes Pereira, Teresa Vazão, 7th IFIP Wireless and Mobile Networking (2014)

**"Last mile" challenges to in situ volcanic data transmission**, Fonseca *et al*, Natural Hazards and Earth System Sciences, European Geosciences Union Article (2013)

**Light-Weight Time Synchronization For Wireless Sensor Networks**, Frederico Gonçalves, Lalith Suresh Puthalath, Ricardo Lopes Pereira, João Trindade, Teresa Vazão, CFIC (2013)

**A Performance Evaluation of HRAN: A Hybrid Routing Protocol Using Bloom Filters for Wireless Mobile Ad Hoc Networks**, João Trindade, Teresa Vazão, NCA (2012)

**Handbook for Volcanic Risk Management - Prevention, Crisis Management, Resikiente**, Bagni Marco, *et al*, Orleans (2012)

**Protocolo de encaminhamento para redes móveis usando estruturas binárias eficientes**, João Trindade, Teresa Vazão, CRC (2012)

**CLOWDE - Cross-Layer One-Way Delay Estimation**, Frederico Gonçalves, Lalith Suresh Puthalath, Ricardo Lopes Pereira, João Trindade, Teresa Vazão, IAVRM (2012)

**The role of telecommunications in volcanic risk mitigation - lessons from the MIAVITA Project**, João Trindade, Teresa Maria Sa Ferreira Vazao Vasques, Joao Duarte Fonseca, 2012, International Conference on Integrated Approaches for Volcanic Risk Management, IAVRM (2012)

**Communication and volcanic Disaster Management: a Case Study of Mount Cameroon**, Emmanuel Kouokam, Njojo Jesse Konang, Robert Mbe Akoko, Mananga Guillaume Sosthene, João Trindade, Pierre Thierry, IAVRM (2012)

**MIAVITA - Wireless Sensor Network**, Ricardo Lopes Pereira *et al*, IAVRM (2012)

**Recomendations for the use of Public Communication Networks during Volcanic Events**, João Trindade, Teresa Vazão, Ricardo Lopes Pereira, IAVRM (2012)

**HRAN - a scalable routing protocol for multihop wireless networks using bloom filters**, João Trindade, Teresa Vazão, WWIC (2011)

**HRAN: Heat Routing Protocol for Ad-Hoc Networks**, João Trindade, Teresa Vazão, MEDHOC (2011)

**TECLAS - an Extremely Configurable Log Analyser System**, João Trindade, Teresa Vazão, ICOIN (2010)

**A Classification Framework for Network and Service Management Models**, João Trindade, Teresa Vazão, Conftele (2009)

**Fault diagnostics and reporting in mobile services**, João Trindade, DEI (2007)

## Massive open online courses

Finished with certificate of accomplishment the following MOOCs:

- **Programming Mobile Applications for Android Handheld Systems** @ University of Maryland  
More info: <http://goo.gl/Fbaenk>
- **Pattern-Oriented Software Architectures: Programming Mobile Services for Android Handheld Systems** @ Vanderbilt University  
More info: <http://goo.gl/780bK5>
- **Programming Cloud Services for Android Handheld Systems** @ Vanderbilt University  
More info: <http://goo.gl/9Qnfmk>
- **Introduction to Systematic Program Design - Part 1** @ University of British Columbia  
More info: <http://goo.gl/rjVzjv>
- **Startup Engineering** @ Stanford University  
More info: <http://goo.gl/fqrdhq> and <http://goo.gl/tkSdJ7>
- **Web Intelligence and Big Data** @ Indian Institute of Technology Delhi  
More info: <http://goo.gl/PmloeR> and <http://goo.gl/PVEBnt>
- **Functional Programming Principles in Scala** @ École Polytechnique Fédérale de Lausanne  
More info: <http://goo.gl/B5RZG8> and <http://goo.gl/leK6Fx>