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# David Silva

Lisboa, Portugal

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*"Try not to become a man of success, but rather try to become a man of value." - Albert Einstein*

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## About

I'm a passionate software engineer, which has over time gained more and more of an interest for both software architecture and security. I'm both curiosity and challenge driven, as well as a honest and calm type of a person.

Having a high motivation and learning capacity I aim to continuously improve myself both personally and professionally, either through self-conducted R&D activities and/or by taking several *Massive Open Online Course* (MOOC).

With a can-do attitude, I can easily adapt and overcome adverse situations, having performed during stress situations as employee of different companies. Nevertheless, working in a healthy and innovative work environment is certainly desirable.

My areas of expertise are the following:

- Software Development
- Software Architecture
- Software Security

## Professional Experience

Jun 2015  
→ present

### Product Security Lead, Coriant, Inc., Portugal

As a Product Security Lead I'm in charge of:

- Product security related processes development (most of them from scratch), such as vulnerability and *Open Source Software* (OSS) management
- Defining product security requirements
- Determine impact and approve product features
- Elaborate architectural and security specifications/documents
- Oversee product development activities
- Promote both security awareness and secure standards
- Provide technical support to clients as well as internal staff/colleagues

Additionally, have successfully mentored a MSc student throughout his thesis on "Preventing DoS attacks in multi-domain optical SDN".

Tech & Tools

*Python, JSON, REST, git, BlackDuck, Nessus, Word, Excel, Jira, Confluence*

Apr 2013  
→ present

### Lead Software Engineer, Coriant, Inc., Portugal

As a lead software engineer i am in responsible for:

- Development, design and overall product/software architecture.
- Review and implementation of unit, integration/end-2-end tests

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	<ul style="list-style-type: none"> <li>• Provide support for system architects during product features and requirements definitions</li> <li>• Cooperation between different teams and products</li> </ul>
Technologies	<i>Java SE8, Spring Boot, AspectJ, Hibernate, jUnit, Maven, Apache Kafka, Apache Zookeeper, git</i>
Jan 2013 → Apr 2013	<b>Software Engineer, Nokia Siemens Networks, Portugal</b>
	Developed software for the Optical Networks area, focused on Routing and Wavelength Assignment ( <i>RWA</i> ) algorithms.
Technologies	<i>Java SE7, EMF, Ecore, jUnit, jBoss, OSGI, SVN</i>
Jul 2012 → Dec 2012	<b>Full Stack Software Developer, Maxdata Informática, Portugal</b>
	Developed a major and innovative IT solution for health institutions. Focusing on core business work-flows and usability.
Technologies	<i>Google Web Toolkit (GWT), Java SE6, Spring, Hibernate, JavaCC, JTree.</i>
Sep 2011 → Jun 2012	<b>Trainee, Maxdata Informática, Portugal</b>
	Developed an Epidemiological Surveillance IT solution, providing a dynamic and elastic software for both prevention and infection control. This topic was also the target of my MSc thesis.
	Additionally, I've done a security audit targeting a in-house developed CRM software.
Technologies	<i>GWT, Java SE6, Spring, Hibernate, JavaCC, JTree.</i>

## Professional Certifications

Dec/2016 | Oracle Certified Associate, Java SE 8 Programmer (1Z0-808)

## Education

2010 → 2012	MSc in Computer Science - Computer Systems, Architecture and Networks, Faculty of Sciences of the University of Lisbon, Portugal.
2005 → 2010	BSc in Computer Science, Faculty of Sciences of the University of Lisbon, Portugal.

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## Free Courses (MOOCs)

Sep/2016 → Oct/2016	Functional Program Design in Scala, École Polytechnique Fédérale de Lausanne.
Jun/2016 → Jul/2016	Functional Programming Principles in Scala, École Polytechnique Fédérale de Lausanne.
Jun/2015 → Aug/2015	Software Security, University of Maryland.
Sep/2014 → Dec/2014	Programming Cloud Services for Android Handheld Systems, University of Maryland.
Mar/2014 → Jun/2014	Programming Mobile Applications for Android Handheld Systems, University of Vanderbilt.
Dec/2013 → Feb/2014	Creative, Serious and Playful Science of Android Apps, University of Illinois at Urbana-Champaign.
Jun/2013 → Aug/2013	Malicious Software and its Underground Economy: Two Sides to Every Story, University of London.
Jan/2013 → Mar/2013	Cryptography I, Stanford University.
Jan/2013 → Mar/2013	Building an Information Risk Management Toolkit, University of Washington.
Jan/2013 → Mar/2013	Information Security and Risk Management in Context, University of Washington.

## Personal projects

Most of my *pet* projects are publicly available at <https://github.com/davidaufsilva>. The main technologies you'll find are *Java* and *Python*. I have also contributed to some open source projects, such as Vert.x and Homebrew.

## Technologies

My main programming language is *Java*, specifically the SE flavour. Nevertheless i am also fluent/have had experience with other programming languages, such as *C*, *Python*, *JavaScript* and *Scala*.

Regarding other stacks, i have experience, either professional or through pet projects with:

Databases	Oracle SQL Server, PostgreSQL, MySQL and H2
VCS	CVS, SVN and Git
Build Tools	Ant, Maven and Graddle
CI	Jenkins and Travis-CI
Coverage	JaCoCo — Codecov and Coveralls
Issue Tracker	GitHub, BitBucket, Jira and Redmine

## Languages

Portuguese	Native
English	Fluent

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References and additional information are available upon request.