
David Silva

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"Try not to become a man of success but a man of value." - Albert Einstein

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 always aim to continuously improve through self R&D activities and 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, i certainly enjoy working in a healthy and innovative work environment.

My areas of expertise are the following:

- Software Development
- Software Architecture
- Software Security

Professional Experience

Jun 2015
→ present

Product Security Lead, Coriant, 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* (OOS) 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

Tech & Tools

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

Apr 2013
→ present

Lead Software Engineer, Coriant, 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
- Provide support for system architects during product features and requirements definitions
- Cooperation between different teams and products

Technologies	<i>Java 8, Spring Boot, AspectJ Apache Kafka, Hibernate, Maven, git</i>
Jan 2013 → Apr 2013	Software Engineer, Nokia Siemens Networks, Portugal
	Developed software for the Optical Networks area, focused on Routing and Wavelength Assignment (<i>RWA</i>) algorithms.
Technologies	<i>Java, Ecore/EMF, jBoss, OSGI, SVN</i>
Jul 2012 → Dec 2012	Software Developer, Maxdata Informática, Portugal
	Developed a major and innovative IT solution for health institutions. Focusing on core business work-flows and usability.
Technologies	<i>Google Web Toolkit (GWT) (front-end), Java, Spring, JPA/Hibernate, JavaCC, JTree.</i>
Sep 2011 → Jun 2012	Trainee, Maxdata Informática, Portugal
	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 (front-end), Java, Spring, JPA/Hibernate, JavaCC, JTree.</i>

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.

Free Courses

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 → Dez/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.
Apr/2013 → Jul/2013	Introduction to Data Science, University of Washington.
Mar/2013 → Jun/2013	An Introduction to Interactive Programming in Python, Rice University.

Jan/2013 →	Cryptography I, Stanford University.
Mar/2013	
Jan/2013 →	Building an Information Risk Management Toolkit, University of Washington.
Mar/2013	
Jan/2013 →	Information Security and Risk Management in Context, University of Washington.
Mar/2013	

Personal projects

Most of my *pet* projects are publicly available at <https://github.com/davidafsilva>. 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 in 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	<i>CVS</i> , <i>SVN</i> and <i>Git</i>
Build Tools	<i>Ant</i> , <i>Maven</i> and <i>Graddle</i>
CI	<i>Jenkins</i> and <i>Travis-CI</i>
Coverage	<i>JaCoCo</i> — <i>Codecov</i> and <i>Coveralls</i>
Issue Tracker	<i>GitHub</i> , <i>BitBucket</i> , <i>Jira</i> and <i>Redmine</i>

Languages

Portuguese	Native
English	Fluent

References and additional information are available upon request.