
David Silva

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"Try not to become a man of success, but rather try to become 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 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, Java, Vert.x, JavaScript, React, JSON, Docker, REST, git, 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/e2e tests

	<ul style="list-style-type: none"> • Provide support for system architects during product features and requirements definitions • Cooperation between different teams and products
Technologies	<i>Java SE8, Spring Boot, Apache Kafka, Apache Zookeeper, jUnit, 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 SE7, EMF, Ecore, jUnit, jBoss, OSGI, SVN</i>
Jul 2012 → Dec 2012	Full Stack 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), Java SE6, Spring, 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, 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.

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/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/have had experience with other programming languages such as *C*, *Python*, *JavaScript*.

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

Frameworks	<i>Spring Boot, Vert.x</i>
Rel. DBs	<i>Oracle SQL Server, MariaDB, MySQL, H2</i>
NoSQL DBs	<i>CouchDB, Redis, MapDB</i>
VCS	<i>CVS, SVN, Git</i>
Build Tools	<i>Ant, Maven, Gradle</i>
Deploy Tools	<i>Docker</i>
CI	<i>Jenkins, Travis-CI</i>
Code Quality	<i>JaCoCo, Codecov, Coveralls</i>
Issue Tracker	<i>GitHub, BitBucket, Jira, Trello, Redmine</i>

Languages

Portuguese	Native
English	Fluent

References and additional information are available upon request.