
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.

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, I 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'm responsible for:

- Development, design and overall product/software architecture.
- Review and implementation of unit, integration/e2e tests

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| | <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, JJTree.</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, JJTree.</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 (*Massive Open Online Course (MOOC)s*)

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.

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| 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

I have developed several *pet* projects, most of them are publicly available at <https://github.com/davidaafsilva>. The main technologies you'll find are *Java* and *Python* (mostly for scripting). 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/languages/technologies, i have experience, either professional or through pet projects with:

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| 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

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| Portuguese | Native |
| English | Fluent |

References and additional information are available upon request.