Sérgio Serrano

🌐 *about.me/sergioserrano*

Education

August 2009 - December 2010
Master of Science in Information Technology - Information Security, *Carnegie Mellon University*, Pittsburgh, PA, Final QPA: 3.83.
Thesis: "Security Analysis of Network Neighbors". Advisor: Nicolas Christin.

September 1994 - October 1999
Bachelor in Electrotechnical Engineering (5 years degree), *Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa*, Monte de Caparica, Portugal, Grade: 14 (0-20 scale).

Experience

February 2021 - Present
Security Manager, *SaltPay*.
- Responsible for defining and delivering the information security roadmap;
- Responsible for the information security awareness and training programs;
- Responsible for compliance initiatives toward security certifications and regulations;
- Developer and architect of security solutions;
- Provide security guidance to the technology teams during the development lifecycle;
- Security auditor of applications and infrastructure;
- Tools and Technologies: AWS, Terraform, Vault, Burp, OWASP ZAP, Go, Python, Java.

April 2016 - January 2021
Principal Security Engineer, *Talkdesk*.
- Developer and architect of security solutions;
- Responsible for defining the engineering security program;
- Security auditor of applications and infrastructure;
- Provide security guidance to the engineering teams during the development lifecycle;
- Security training for the engineering teams;
- Support compliance efforts toward security certifications and regulations;
- Tools and Technologies: AWS, Terraform, Packer, Vault, CFSSL, osquery, OSSEC, Burp, OWASP ZAP, ELK stack, BDD, Java, Python.

November 2015 - March 2016
Applications Security Team, *Portugal Telecom*.
- Security auditor of applications and infrastructure;
- Developer and advisor for security solutions;
- Tools and Technologies: Apache, Apache Tomcat, Nginx, Java, Python, Burp, Git.

October 2012 - October 2015
Software Engineer, Security and ID Team, *Portugal Telecom*.
- Main developer and operations manager of SSO solution (https://login.sapo.pt/, https://wallet.pt);
- Main developer and operations manager of the authentication module for a Payments solution (https://wallet.pt);
- Main developer and operation manager of identity management solution (https://id.sapo.pt/);
- Security solutions development;
- CTF organizer and developer for SAPO Codebits;
- Tools and Technologies: Apache, Apache Tomcat, Nginx, Java, Spring Framework, Python, Django, Shibboleth, Memcached, SAML, OAuth, OpenID, YubiKey, Git.

February 2011 – November 2012
Networking and IT Security Engineer, *Portugal Telecom*.
- Development of network and IT security architectures;
- Development of network security program for SAPO (http://www.sapo.pt/) and residential ISP;
- Network security incident handler;
- Development of security vulnerabilities management tool based in the Django web framework;
- Development of tools to support network operation, maintenance tasks and management reporting;
- Tools and Technologies: IP, BGP, Cisco, DPI, OSSIM, Snort, OSSEC, CVSS, Honeypots, ExaBGP, Python, Django, MySQL, Subversion.

April 2005 – January 2011	**Network Engineer**, *Portugal Telecom*.

- Network engineering for all related services of SAPO (http://www.sapo.pt/);
- ISP services network infrastructure development. Includes RADIUS (AAA) and DNS;
- ISP core network QoS monitoring and engineering;
- Development of tools to support network operation, maintenance tasks and management reporting;
- Tools and Technologies: IP, RADIUS (AAA), DNS, Cisco, Alteon, Apache, *NIX, Perl, Cacti, Nagios, Centreon, virtualization.

April 2001 to March 2005	**Software Developer and Chief Engineer**, *Siemens*.

- xDSL, ATM large scale network provisioning application development for Service Provisioning;
- Web reporting applications development for Performance Management;
- Tools and Technologies: C++, CORBA, Versant Database, IBM Clearcase control versioning, Apache Tomcat, JSP and Servlets, XML, Adobe Flash and Adobe Coldfusion.

September 1999 to March 2001	**Pre-Sales Networking Projects Manager**, *Telepac*.

- ISP pre-sales networking projects management and development;
- Enterprise technical support for Internet solutions;
- Tools and Technologies: xDSL, Frame-Relay, HDLC, IP, Routing, Linux, DNS, SMTP, IMAP, POP3.

Technical skills

Languages	Advanced knowledge of Java, Python and good knowledge of C++, Perl, Bash, Assembly, HTML, XML, JSP, CFML.
Information Security	Software and network security, cryptography, VPN, DPI, IDS, WAF, FW and honeypots.
Databases	Relational and Object Oriented Databases.
DevOps	CI/CD, automation and monitoring systems.
Tools	Terraform, Packer, Vault, CFSSL, OSSEC, Burp, ELK stack, Eclipse, Vim, Git, Subversion, ClearCase, OTRS, Cacti, Nagios, Centreon.
Networking	TCP/IP, BGP, Load Balancing. Hands-on experience with Cisco, Nortel and Crossbeam Equipments.

Languages

Portuguese	Fluent	*Native language.*
English	Fluent	*Speaking, reading, and writing.*
French	Intermediate	*Speaking, reading, and writing.*
Spanish	Intermediate	*Speaking, reading.*

Interests

Handball	It's never too late to learn new skills.
Karaté Shotokan	Keeping the balance since 1986.
BTT	Riding a bicycle while being surrounded by nature. That is it.
Comics	Besides being an avid consumer I have also entered the amazing realm of creation with a character named Almiscaro.
Theater	Before stepping into the world of IT I have worked as a professional actor.