José Jair Santanna

Ph.D. Researcher, Lecturer, Network Security Specialist & (Big) Data Analyst

Contact

Drienerlolaan 5,
Zilverling 5110,
7522 NB Enschede,
The Netherlands.

+31 (6) 42330703

http://jairsantanna.com
j.j.santanna@utwente.nl

Languages

portuguese native
english fluency
spanish comprehension
dutch comprehension

Programming

Bash, Python, C#,SQL
PIG, Spark & Impala

Professional Objective

A research & development position with focus on network security and the use of big data technologies to improve network data analysis. A position where I can transfer my enthusiasm, knowledge, skills and experience into meaningful innovation that improve the security in computer networks, specially in the Internet.

Education

2013–Now	**Doctor**	University of Twente, The Netherlands
	"The DDoS as a $ervice Phenomenon"	
2010–2012	**Master** in Computer Science	Federal University of Rio Grande do Sul, Brazil
	"A BPM-based Solution for Inter-domain Circuit Management". The outcome of this work generated a product still in use by the Brazilian National Education and Research Network (RNP) (Link: http://meican.cipo.rnp.br/)	
2005–2010	**Bachelor** in Computer Engineer	Federal University of Pará, Brazil
	"A Comparative Evaluation of DCCP Protocol in a Experimental Mesh Network."	

Experience

Technical Adviser

2016	**To the Dutch National Cyber Security Center and the Scientific Research & Documentation Center**	The Netherlands
	For the production of a report on "Cyber metrics 2016: DDoS and Malware" requested by the *Dutch Ministry of Security and Justice*.	
2016	**To the Yokohama National University**	Japan
	For the production of a report on "Reflection & Amplification DDoS attacks" requested by the *Japanese Ministry of Internal Affairs and Communications*.	

Assistant Professor

2012–2013	**University of Santa Cruz do Sul (UNISC)**	Santa Cruz do Sul, Brazil
	Tasks & Responsibilities: Supervise students and teach the following courses: Computer Networks, Computer Network Management, and Digital Systems.	

Guest Lecturer

2015 & 2016	**Product Design to Online Business (course)**	University of Twente, The Netherlands
	Audience: bachelor students of industrial engineering and business information technology.	
2015	**Network Security (course)**	University of Twente, The Netherlands
	Audience: master and bachelor students of computer science, electrical engineer, and telematics from the University of Twente, 3TU cyber security, and members of ICT labs.	
2015	**Cybercrime & Cybersecurity (minor)**	University of Twente, The Netherlands
	Audience: bachelor students from University of Twente, European Research Center for Information (ERCIS), Westfälische Wilhelms - Univerität Münster, Universität Innsbruck, and University of Leicester.	

Software Developer

2015–Now **Distributed Denial of Service Attacks Database (DDoSDB)**
Link: http://bit.ly/ddos_db
An initiative to develop the largest open database with DDoS attacks.
Languages: Python, Bash, Pig Latin & Apache Impala

2010–2011 **Management Environment of Inter-domain Circuits for Advanced Networks (MEICAN)**
Link: http://meican.cipo.rnp.br/
Development of an Executable Network Management Policies Editor sponsored by the Brazilian National Education and Research Network (RNP)
Language: WS-BPEL

2009 **Support for Planning Sustainable Electrical Power Generation via Vegetable Oil.**
Desktop application sponsored by Eletronorte, subsidiary of the major Brazilian power utility (Eletrobrás).
Language: C#.Net & mySQL

Student Supervisor

[M.Sc. Degree] **Joey de Vries [Cum Laude], Justyna Chromik [Cum Laude], Wouter de Vries, Mark Wierbosch, and Jarmo van Lenthe.**

[B.Sc. Degree] **Roeland Krak, Max Kerkers, Dirk Maan, Jochum Börger, and Guilherme Dressler.**

International Conference Reviewer

IFIP Networking (2014–2016), IEEE/IFIP Network Operations and Management Symposium (2014 & 2016), Asia-Pacific Network Operations and Management Symposium (2013 & 2014), IFIP/IEEE Integrated Management (2015), International Conference on Autonomous Infrastructure, Management and Security (2015), International Conference on Network and Service Management (2013– 2015), EUNICE Conference (2013) & IEEE Symposium on Computers and Communications(2011)

Awards

2015	**Best Ph.D. 'Elevator Pitch' (1st Place)**	CTIT Symposium, University of Twente
2015	**Best Poster (3rd Place)**	CTIT Symposium, University of Twente
2015	**Best Paper Award**	Autonomous Infrastructure, Management and Security Conference
2015	**Top Papers Nomination**	Brazilian Symposium on Computer Networks and Distributed Systems
2010	**Student Award (3rd Place)**	Computer Engineer, Federal University of Pará, Brazil

Communication Skills

More than 30 presentations in the last 3 years (see in: http://www.slideshare.net/jjcsantanna), among those I highlight:

2015	**Oral Presentation**	at Logius (part of the Dutch Ministry of the Interior and Kingdom Relations).
2015	**Oral Presentation**	to the Dutch National Management Organization of Internet Providers (NBIP).
2015	**Oral Presentation**	to the Dutch National Cyber Security Centrum (NCSC).
2013 & 2015	**Oral Presentation**	at the 31th and 36th IRTF Network Management Research Group (NMRG).

Scientific Appendix

**Description of Ph.D. Research
Publications**