

José **Jair** Cardoso de **Santanna**

Cloud Security Lead, Cyber Security Specialist, (Big) Data Analyst and Researcher

Contact

Oosterstraat 5
7514DX Enschede
The Netherlands

jairsantanna@gmail.com
+31 6 42330703


Links

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Languages

Dutch★★★★☆

English★★★★★

Portuguese★★★★★

Status and Professional Objective

I am currently leading the cloud security division at Northwave Security. Besides leading that, I also manage the research, training and development of security services (SIEM, SOC, CERT related). Voluntarily, I also develop automation scripts to speed-up the investigation of security incidents and train SOC engineers & analysts. I also work as a member of the works council to give back to the company what they invest on employees. In addition to all of that I am one-day-a-week assistant professor at University of Twente (paid by Northwave). I've got a Ph.D. degree, which means, in short, that I have enough capacity to think analytically and abstractly to solve complex problems. In 2018, I won a national competition (by FAMELAB) giving me the title of "the best science communicator of the Netherlands", which means, in short, that I can engage an audience to learn what I intend to teach. In the same year, I was selected among the top 15 young engineers of the Netherlands (by The Royal Netherlands Society of Engineers), that means that my working contributions are recognized by the Dutch engineering community. Overall, my professional objective is to improve the cyber security in all types of environment transferring my enthusiasm, knowledge, skills and experience into high impact solutions.

Education

- 2013–2017 **Doctor** in Computer Science University of Twente, The Netherlands
"DDoS-as-a-Service-Investigating Booter Websites".
Supervisor: Prof. Dr. Ir. Aiko Pras
This work has being used by both the security community and by network operators worldwide. Most outcomes are publicly available at github and were cloned and used worldwide by dozens of law enforcement agencies.
- 2010–2012 **Master** in Computer Science Federal University of Rio Grande do Sul, Brazil
"A BPM-based Solution for Inter-domain Circuit Management".
Supervisor: Prof. Dr. Lisandro Zambenedetti Granville
The outcome of this work is still in production used by the Brazilian National Education and Research Network and available at 'meican.cipo.rnp.br'.
- 2005–2010 **Bachelor** in Computer Engineer Federal University of Pará, Brazil
"A Comparative Evaluation of DCCP Protocol in Mesh Networks."
Supervisor: Dr. Kelvin Lopes Dias

Experience

Cloud Security Leader

2019–now **Northwave BV**

Utrecht, The Netherlands

Assistant Professor

2017–now **University of Twente**

Enschede, The Netherlands

Tasks & Responsibilities: teach, supervise students, lead projects, submit project proposals, review academic papers and journals, and perform own research.

Project Leader

2017–2019 **Collecting, Transforming, Applying, and Disseminating DDoS Attack Knowledge**

@University of Twente

Funded by: SIDN fonds

2018–2019 **Online Discoverability and Vulnerabilities of ICS/SCADA Devices in the Netherlands**

@University of Twente

Funded by: Wetenschappelijk Onderzoek- en Documentatiecentrum (WODC)

Task Leader

2019–2019 **Cybersecurity Competence for Research and Innovation (CONCORDIA)**

Funded by: the European Framework Programme for Research and Innovation

Responsible to lead 42 partners on the investigation of network-centric security solutions for Europe.

Technical Advisor

2017–now **To the *Team High Tech Crime* (THTC) police unit** The Netherlands

On: “DDoS attacks” and “Booters, Stressers, and DDoS-for-hire”

2019–2019 **To *Logius*, the digital government service of the Netherlands Ministry of the Interior and Kingdom Relations (BZK)** The Netherlands

Report on: “Assessing Logius’ Quality Peering Platform (KPP) Against DDoS Attacks”

2019–2019 **To the *Nationale Beheersorganisatie Internet Providers* (NBIP) and the *Stichting Internet Domeinregistratie Nederland* (SIDN)** The Netherlands

Report on: “The impact of DDoS attacks on Dutch enterprises.”

2016–2016 **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*.

2016–2016 **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*.

Lecturer

2012–2013 **University of Santa Cruz do Sul (UNISC)** Santa Cruz do Sul, Brazil

Tasks & Responsibilities: Supervise students and teach (integrally) the courses:

- **Digital Systems;**
- **Computer Networks; and**
- **Network Management.**

Guest Lecturer

2015–2019	Cybercrime & Cybersecurity (minor) Course: Introduction to Network Forensics Audience: bachelor students from University of Twente, European Research Center for Information (ERCIS), Westfälische Wilhelms □ Universität Münster, Universität Innsbruck, and University of Leicester.	University of Twente, The Netherlands
2016–2019	Network Management Lectures: (1) “SNMPv1, v2, v3 and Beyond” and (2) “Network management based on WebServices” Audience: master students of computer science, electrical engineer, and telematics from the University of Twente.	University of Twente, The Netherlands
2015–2019	Network Security Lecture: “DDoS attacks into the Matrix” 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.	University of Twente, The Netherlands
2015 & 2016	Product Design to Online Business Lectures: (1) “Booters: the DDoS-as-a-Service phenomenon” and (2) “Product Design to Online Business” Audience: bachelor students of industrial engineering and business information technology.	University of Twente, The Netherlands

Presentations

**Top 5 last presentations.*

Invited	The Biggest Dutch Digital Experts Conference (DEX-XL)	2019
Invited	Stichting Nationaal Informatica Congres	2019
Invited	TEDx Talk Youth AnnaVanRijnCollege	2019
Invited	ONE conference	2019
Abstract	ONE conference	2018

Rewards & Awards

2021	Great EU-funded Innovations	European Union
2018	Best Science Communicator of the Netherlands	FAMELab
2018	Among the top Young Talented Engineers of the Netherlands	Het Koninklijk Instituut Van Ingenieurs