

Johnatan Santos de Oliveira

Senior Software Engineer – Security Analyst | www.johnatan.net | johnoliv@gmail.com | +55 61 99211 0008

Education

[Master of Science]

Master of Science in Electrical Engineering (2018)

Research Interest: Neural Networks, Biometrics, Machine Learning and Information Security.

Dissertation: Cross-Domain Deep Face Matching for Banking Security Systems

Advisors: Ph.D Flavio Elias de Deus, UnB / Ph.D Anderson R. Rocha, Unicamp

University of Brasilia - UNB

[Postgraduate Studies]

Post-graduate studies in Digital Forensics (Computer Forensics) (2012)

Dissertation: Computer Forensics in Android Mobile Devices: A Case Study for Smartphone.

Advisor: Ph.D Laerte Peotta de Melo, University of Brasilia

Catholic University of Brasilia – UCB

[Graduate]

Analysis and Systems Development (2010) Catholic University of Brasilia - UCB

Degree in Music (2009) [Locked] Federal University of Sergipe – 2nd Period

Career Experience

Banco do Brasil S.A. – Senior Software Engineer – Security Analyst

Date: September 2007 – Current

At Banco do Brasil, I'm responsible for the development and management of new IT projects for distributed and mainframe platforms (IBM z/OS) in a Financial environment. My latest projects are related to Information Security, Biometrics, Machine Learning and Neural Networks. I actively participated as technical manager and security architect in projects such as Facial Recognition System with mobile devices, BBCode (security solution based on QR Code), validation of biometrics in ATMs, innovation projects and microservices architecture.

Knowledge applied: *Java, Python, Machine Learning, Neural Networks, Biometrics, Information Security, Microservices architecture, Docker, NoSQL Databases, Project Management, Linux, Javascript, Angularjs, Node and Scrum.*

University of Brasilia - Security Researcher CDT / UNB

Date: January 2014 to August 2015

Researcher at the Centre for Technological Development (CDT / UNB) in Network Engineering Laboratory, Department of Electrical Engineering. Technical Cooperation Agreement FUB/CDT and MJ / SE - Civil Identity Registry Redesign and New Pilot Project.

Research fields: *Big Data, Cloud Computing, Cryptography, CryptoDB, NoSQL Databases, Software Development, Service Oriented Architecture (SOA), Biometric Standards, Information Security and Computer Forensics.*

Interactive IINDEX Studio – Business Partner and Creative Director

Date: March 2005 to December 2009

Responsible for design and development of interactive media products, mobile, integrated systems and new technologies, and information architecture and interface design, focusing primarily on user experience and usability.

Knowledge applied: *Project Management, Development Internet Applications and Mobile Applications, PHP, Action Script, Java Script, Ajax, CSS, HTML, HTML 5, jQuery, JSON, SQL, Data Modeling and creation of interfaces.*

Alfama Web – Designer and Web Developer (October 2004 to March 2005)

Magazine WWW.COM.BR - Contributor and Columnist Writer ASP/FLASH (Oct. 2005 to Dec. 2006)

Masterradius Transceptores Ltda - Central Processing Administrator (April 2004 to Nov. 2004)

Naweb Ltda - Designer and Developer (October 2002 to February 2003)

Advance Trainee Ltda - Computer Technician / Instructor and Developer (Dec. 1999 to Oct. 2002)

Publications

Oliveira, Johnatan S., Gustavo Botelho de Souza, Anderson Rocha, Flavio E. de Deus and Aparecido Nilceu Marana. “**Cross-Domain Deep Face Matching for Real Banking Security Systems.**” *ArXiv* abs/1806.07644 (2018): n. pag.

De Oliveira., J. S., Torres, J. A. S., Deus, F., Rodrigo B. Nogueira & Deus, F. **A Proposal of a secure ABIS's transmission subsystem adherent to the Brazilian e-gov.** In eDemocracy & eGovernment (ICEDEG), 2018 5th International Conference on eDemocracy & eGovernment on. IEEE, 2018. p. 325-330.

Torres, J. A. S., De Oliveira., J. S., Deus, F & Junior R. D. **Deduplication as a Service: Overcoming the myth of ABIS Proprietary Solutions.** In eDemocracy & eGovernment (ICEDEG), 2018 5th International Conference on eDemocracy & eGovernment on. IEEE, 2018. p. 109-116.

Awards, Courses and other Activities

- Network and Systems Security - Escola Superior de Redes (esr.rnp.br) (2019)
- Web Application Penetration Testing - Escola Superior de Redes (esr.rnp.br) (2019)
- Winner of the 2018 Hackaton InovatuAÇÃO Banco do Brasil
- Certification of Knowledge in Management Security (BB/CespeUNB) (2018)
- Certification of Knowledge in Information Technology (BB/CespeUNB) (2018)
- Cisco Secure Networks - TRN SECURE V1.0 SECURING NETWORKS WITH CISCO ROUTERS AND SWITCHES (SECURE) (2012)
- Winner of the 2012 Best Technology Initiatives - BB Code - Banco do Brasil
- Brazilian Computer Society (SBC) and the University of Brasilia (2011)
 - Mini Course: Malware Analysis: Codes Research Exploits Through a Practical Approach
 - Mini Course: Techniques for Analysis of Dynamic Malicious Code
 - Mini Course: Machine Learning for Computer Security: Methods and Applications
 - Mini Course: Live Forensics in Windows Environments
- Cryptography and Digital Keys (4 hours) - Center for Tech. and Knowledge Dissemination (2010)
- Training for MainFrame Analysts Developers (COBOL) - CooperSystem (120 hours) (2009)

Articles in Magazines

Oliveira, J. Minha Primeira Aplicacao J2ME. Revista W, N°71, Ano 6, p. 44-49. São Paulo, 2006.

Oliveira, J. Java Móvel. Revista W, N°70, Ano 6, p. 52-54. São Paulo, 2006.

Oliveira, J. Destaques de Notícias em Flash. Revista W, N°69, Ano 6, p. 44-49. São Paulo, 2006.

Oliveira, J. Componentes Flash. Revista W, N°68, Ano 6, p. 44-49. São Paulo, 2006.

Oliveira, J. MP3 Player Online. Revista W, N°67, Ano 6, p. 44-51. São Paulo, 2006.

Oliveira, J. Personalizando Imagens com o ASP. Revista W, N°66, Ano 6, p. 52-56. São Paulo, 2005.

Languages

Portuguese - Native

English - Advanced

Spanish - Basic