

Sander Demeester

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1990/01/17

Personal Diagnosed with autism, this is the reason why my academic career differs from the normal traject. My big passions are information-networks and number theory. Ikzelf leid aan het autisme spectrum stoornis, waardoor mijn opleidingsloopbaan

Work experience *Software developer* Summer intern 2013

developing of a python program to analyze large amount of logging information generated by the ugent supercomputer through static data analysis and machine learning algorithms. . At High performance and computing infrastructure (University Ghent). (github.com/hpcugent)

administrative en ICT employee 2010 - 2011
Stage at Province of West Flanders department ICR.
In my final year of secondary education i started doing some administrative. This work quickly involed to ICT work. At the end of the year the result was a security model i had developed involving the WiFi Security specification (802.11i)

Education *Secondary education*, Extraordinary education for people with autism.
Spermalie BRUGES (2002 - 2010)

Informatica, University Ghent.
Behaalde resultaten:

- 1ste bachelor (2010-2011) : Programming 1 and 2.
- 1ste bachelor (2010-2011) : Communication Techniques.
- 1ste bachelor (2010-2011) : Law of intellectual property.
- 1ste bachelor (2010-2011) : Linux Computing (advanced linux use).
- 1ste bachelor (2010-2011) : Scripting Languages (advanced linux use).
- 1,2,3 bachelor (2010-2013) : Algorithms and Data Structures.
- 2de bachelor (2011-2012) : Software Development 1, 2.
- 2de bachlor (2011-2012) : Computer Architecture.
- 3de bachelor (2011-2012) : Operating Systems.
- 3de bachelor (2012-2013) : Communication Networks.
- 3de bachelor (2012-2013) : Interdisciplinary Project.
- 3de bachelor (2012-2013) : Internet technology.
- 1ste master (2012-2013) : Information Security and Cryptography.

- 1ste master (2012-2013) : Studie van programeertalen en programmeermodellen

Training related projects.

Algorithms & Data Structures: AD3zip, ZW-tree
Own implementation of data compression algorithms.

- Burrows Wheeler
- lz77
- Huffman

Avank-bebras: Interdisciplinary Project
System administrator & Software developer.
<http://github.com/SanderDemeester/bebras-avank>.

Project information security: Designing and implementing of an online banking application using a multi-factor authentication scheme on android (HOTP).

None training related projects.

Alix 2D2 and raspberry PI
Designing, making and managing of homerouter using OpenBSD.

Author of different opensource projects.

Refer to github.com/SanderDemeester

- Network analysis tools
- Own implementation of cryptographic algorithms (with as purpose getting a better understanding of there inner workings).

ZeusWPI

Active member of ZeusWPI, Actief lid van ZeusWPI, workgroup computer science at University Ghent.

- <http://zeus.ugent.be>
- <http://github.com/ZeusWPI>

Workgroup Ethical hacking

Active member workgroup Ethical Hacking at Department ELIS University Ghent.

Attend IT-related conferences

- FOSDEM
- BruCON
- VPW
- Blackberry developer conference

Cryptography workshop

Workshop with as main topic SHA3 and permutation based cryptography organized by VUB.

reading internation academic publications (IEEE and ACM).

Computer literacy

Programming languages

- Java	ASP.NET
JDBC	x86 assembler and ARM assembly.
jbox2d	
Swing	Frameworks en Library
C / C++	libxml2
Python	ncurses
Javascript	Play framework
sigma.js	Android (baisc)
node.js	Sage Mathematics
.NET	scikit-learn

System administrator

- Linux en OpenBSD
 - DNS/BIND (dnssec)
 - advanced knowledge of TCP/IP and networking techniques.
 - Good knowledge of IPv6 + deploy techniques.
 - Knowledge VPN technologies. (TLS/IPSEC)
 - Routing and dispatch en Dispatch algorithms (RIPv2, BGP basic).
 - Excellent knowledge of the two biggest firewall based rule engines (IPTables and PF).
 - Experience with NetFlow packet analysis.
 - Experience with Apache.
 - Experience with OpenSSL.
 - Network Engineering.
 - Network Architecture.
- Experience with Windows, Linux (Debian based, Gentoo, CentOS en Back-Track) and OpenBSD.
 - Scripting, bash, sed en awk.

Tools

Wireshark
Postgresql
MySQL
Graylog2
Logstash
Jenkins
ZAP

Eclipse

Varia

Blog (<http://www.sanderdemeester.be/blog>)
Semantic web en Linked Data.
Continuous integration.
Version control
git.

basic knowledge SVN.
basic knowledge Mercurial
SCM.

basic knowledge databank normal-
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