

CURRICULUM VITAE

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PERSONALIA

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SUMMARY

When I was only 10 years old I wrote my first application on a Commodore 64 and knew what I wanted to be. Nowadays I am a graduated and certified IT professional with 15 years of programming experience of which 8 years with JAVA. I never avoided network and system engineering and embraced the extra responsibilities, mentor and management tasks that crossed my path.

PROFILE

I am a critical thinker with strong analytical skills and an unstoppable desire to learn and discover. Perseverance and creativity can take you places: in all years I never failed to solve a problem. This was also noticed by a former employer who started to deploy me as a generic problem solver at large companies to solve issues with enterprise networks and to help development teams overcome hurdles.

Although I probably am a nerd in terms of knowledge, I don't believe in a nerdy approach and all kind of unnecessary buzz words. I do believe in humor, positivity, getting the job done and getting the job done. Did I already mention 'getting the job done'?

MOST RELEVANT STUDIES

09-2001 - 09-2006 University: HVA (Cum Laude)
discipline: Higher computer science
08-1998 - 06-2001 Secondary Vocational Education: Europa College
discipline: Technical information technology

LANGUAGES

Dutch - native | English - advanced | German - intermediate | French - très mauvais

MOST RELEVANT AREA's OF KNOWLEDGE

Skill level: ⑤=Excellent, ④=Very good, ③=Good, ②=Fair, ①=Poor

Programming	Java J2EE⑤, Groovy④, PHP④, Javascript④, C++③, C ③, Linux Bash④ Python①, PL/pgSQL⑤, WSDL⑤, XSLT⑤, XML schema/DTD④, HTML④, Basic②, Batch④ , SED③ , AWK②
O2M	Hibernate④, GreenDAO③, Custom built⑤
Frameworks	Grails④, Apache FOP⑤, ATK③, Spring③, PEAR②, STRUTS②
Build helpers	Gradle③, Maven④, Grunt②, Ant④
Designing	UML④, Creational, structural and behavioral design patterns④
Databases	PostgreSQL⑤, MySQL④, MongoDB③, SQLite④, FileMaker②, dBase②, Oracle③
Mobile development	Android③, Ionic①
DB pooling	C3PO③, JDBC pool⑤, Jakarta DBCP⑤
DB clustering	(Multi-master, Master-slave, Failover⑤) pg-pool-ii PostgreSQL⑤, MySQL③
APP clustering	mod_jk③, mod_ajp③, mod_proxy④, Apache webserver④
APP servers	JBoss②, Apache Tomcat⑤, Glassfish②,
Testing	Spock④, JUnit④, Mockito④,
IDE's	Eclipse④, IntelliJ④, Netbeans③, Zend③, StylusStudio④
Operating systems	All Windows versions④, Unix③, Linux (Redhat, CentOS, Ubuntu, YellowDog, Raspberry Wheezy, etc)④
Issue tracking	MantisBT④, Bugzilla③, JIRA③, YouTrack③
Continuous Integration	Hudson④, Jenkins④, Team City③
Monitoring	Cacti③, Nagios③, Munin③
Knowledge sharing	WIKI④
Version control	GIT③, Subversion④, CVS③
Methodologies	Test-Driven-Development④, Extreme programming④, Dynamic systems development method (+Agile)④
Artificial Intelligence	Genetic algorithms⑤, neural networks③, Cybernetics and brain simulation③, fuzzy logic③
JAVA libraries	Axis2④, Xerces④, Swing④, event④, regex⑤ , concurrent⑤, Apache Commons④, iText④, jPedal ④,JGoodies④, io④, servlet④, JSON③, GSON③, Hessian⑤, log4j④, JChart③, Webstart④, JavaMail (IMAP+SMTP)④, quartz③, etc....
Code quality	I try to: make complex things simple, never exceed 5 lines of code per method, never mix business logic with UI code, document thoroughly, avoid duplicity, organize the code using a modal, extract configuration, implement convention over configuration, code the test and test the code, etc..

MOST RELEVANT EXPERIENCE RELATED TO DEVELOPMENT

Period 2014 - 2015
Company JAVA360 | Self-employed @ Quince Amsterdam
Description Worked on an innovative e-learning platform actively being used by more than 100.000 users worldwide to keep their knowledge up-to-date. Replaced the core reward system and created quite some new functionality. Responsible for seriously improving the performance of some vital components.
Role *Developer*
Main technologies *Grails (Groovy on rails), Quartz, REST, Asynchronous Mail, AOP, Tomcat 7, HTML 5, JSON, MySQL, Android, Spock, Gradle, Spring*

Period 2014 - 2015
Company JAVA360 | Self-employed @ Quince Amsterdam
Description Built a fulfillment system and integrated this with a major handler who ships both physical and electronic 'rewards' all over the world.
Role *Project lead / Developer*
Main technologies *API design, Grails (Groovy on rails), Tomcat 7, JSON, MySQL, Spock*

Period 2014 - 2015
Company JAVA360 | Self-employed @ Quince Amsterdam
Description Extended an Android APP with support for new types of e-learning challenges, legal agreements, improved barcode scanning and more.
Role *Project lead / Developer*
Main technologies *Android KitKat, JSON*

Period 2014 - 2015
Company JAVA360 | Self-employed @ Quince Amsterdam
Description Analyzed, hunted down and fixed issues responsible for subsequent cluster node dropouts.
Role *Developer / DevOp*
Main technologies *jvisualvm, jconsole, jstack, profiling, JMX, Tomcat agents, Linux*

Period 2014 - 2015
Company JAVA360 | Self-employed @ Quince Amsterdam
Description Adjusted an enterprise platform to support thousands of simultaneous active users which was not possible before.
Role *Developer*
Main technologies *Grails (Groovy on rails), Transaction flows, AOP, Tomcat 7, MySQL, Transaction isolation, DB connection pools, Worker threads, nginx*

Period 2013 - 2014
Company JAVA360 | Self-employed
Description Built a video streaming server and client application for distributing TV channels.
Role *Developer*
Main technologies *Hard-Float Debian Wheezy, Java, Tomcat 7, Raspberry PI, Android SDK*

Period 2013 - 2014
Company JAVA360 | Self-employed
Description Built a domotica application for controlling home devices like: audio, television and lights.
Role *Developer*
Main technologies *Hard-Float Debian Wheezy, Java, Tomcat 7, GPIO, Raspberry PI, Android SDK, Radio frequency interfacing*

Period 2013 - 2014
Company ACHA Automation
Description Built a communication layer, backend and frontend logic to connect to the government in order to securely access insurance data of Dutch citizens.
Role *Developer*
Main technologies *Java, Tomcat 5, Spring, Swing, Webstart, Hibernate, Web services, SSL, PostgreSQL*

Period 2013 - 2014
Company JAVA360 | Self-employed
Description Built a framework for synchronizing local data with the cloud. Ideally to use for mobile devices. Data containers on both client and server side are generated using a single object model. The same goes for all data access layers and syncing logic. The synchronizing itself can be influenced by using different configuration modes like: 'direct', 'delayed', 'resource-friendly', 'aggressive' and to support version control 'keep-history'.
Role *Developer*
Main technologies *Java, Tomcat 7, Spring, Hibernate, PostgreSQL, GreenDAO, maven-android, Android SDK, GSON*

Period 2012 - 2013
Company ACHA Automation
Description Built a generic x509 compatible 'in-memory' certificate carousel to be able to access the AORTA health care infrastructure of the government. Because of the multi-threaded design many health-care institutions are able to access the government's infrastructure simultaneously using their own certificate(s). The correct certificate is selected based on transaction variables in the Secure Socket Layer. For performance reasons all certificate stores are built and cached during server start using encrypted private keys and certificate chains.
Role *Developer*
Main technologies *Java, Threads, Sockets, RSA certificates*

Period 2012 - 2013
Company ACHA Automation
Description Built a JUnit test framework to simplify the initialization of test cases by using generic specimen factories and annotations.
Role *Developer*
Main technologies *Java, Annotations, JUnit, Mockito, Reflection, AOP, Inversion of control (dependency injection)*

Period 2006 - 2013
Company ACHA Automation
Description Built a seriously large amount of frontend & backend business logic for a national medical health care application. Including data manipulation, search capabilities and reporting tools.
Role *Developer, project manager*
Main technologies *Spring, Swing, Tomcat, Hibernate, XSLT2.0, Xerces, Hessian, Webstart, Application clustering, Database clustering*

Period 2006 - 2013
Company ACHA Automation
Description Built hundreds of SQL queries for a variety of tasks like correcting medical data in a national health care database used by almost every Area Health Authority in the Netherlands. Other queries were built for reports or just as part of business logic. Database tuning, query tuning and indexing became a sport.
Role *Developer, database administrator*
Main technologies *(ANSI) SQL, DDL, DML, Dynamic, miscellaneous*

Period 2006 - 2013
Company ACHA Automation
Description Supported and trained several interns and contracted developers.
Role *Trainer, developer*
Main technologies *Java, SQL*

Period 2006 - 2013
Company ACHA Automation
Description Built dozens of correspondence and report templates.
Role *Developer*
Main technologies *XSLT, Apache FOP, Java*

Period 2006 - 2013
Company ACHA Automation
Description Part time Service Desk employee (mostly last line). Helping customers and fellow Service Desk employees with workarounds and bug fixes.
Role *Service Desk employee, developer*
Main technologies *Java, SQL*

Period 2011 - 2012
Company ACHA Automation
Description Built a medical application for synchronizing patient related data and x-ray pictures with the governments cloud. Data originates from buses (a sort of mobile hospitals) that drive through The Netherlands, collecting Tuberculosis related information.
Role *Developer*
Main technologies *Java, XML, DICOM, Web services, SSL*

Period 2011 - 2012
Company ACHA Automation
Description Gave a course on design patterns to fellow developers.
Role *Instructor*
Main technologies *Creational, structural and behavioral design patterns in Java*

Period 2011 - 2012
Company ACHA Automation
Description Gave a presentation at GGD Amsterdam about accessing the nation wide municipality basic administration. Provided all necessities for successfully completing the governments certification process.
Role *Instructor*
Main technologies *HTTP, SOAP, WSDL, Axis, SSL, XML, AORTA*
Period 2011 - 2012
Company ACHA Automation
Description Led the investigation / answer process initiated by a software quality analysis company. Responsible for adopting several recommendations and leading the development team to further improve the overall code quality and maintainability. The code quality passed the test.
Role *Project manager, Developer*
Main technologies *Java, code generators, SVN, Jenkins, Maven*

Period 2011 - 2012
Company ACHA Automation
Description Built a complete backup suite for VMware. Being able to process backups and snapshots securely and efficiently over the Internet using a rolling checksum data exchange algorithm together with a compression protocol encapsulated with SSL.
Role *Developer*
Main technologies *Java, Bash, Vjjava, RDIFF, SSH, Python*

Period 2011 - 2012
Company ACHA Automation
Description Fixed some authorization bugs in the SVN Maven publisher plugin.
Role *Developer*
Main technologies *Java, version control, Maven build cycle*

Period 2010 - 2011
Company ACHA Automation
Description Fixed some issues in Apache's FOP (Formatting Object Processor) 92.B source code so 'copying characters to clipboard' in PDF readers, like Acrobat, works correctly for Unicode fonts.
Role *Developer*
Main technologies *Java, UTF8 character mapping*

Period 2010 - 2011
Company ACHA Automation
Description Extended SUN's JNLP servlet to support multi JNLP parsing and caching.
Role *Developer*
Main technologies *Java, Servlets, Caching*

Period 2010 - 2011
Company ACHA Automation
Description Added dictionary functionality to an existing application. The existing open source dictionary (called Jortho) was modified to support different word list compilation sources and an alternative memory model for retaining loaded words.
Role *Developer*
Main technologies *Java, Jortho, Caching strategies*

Period 2010 - 2011
Company ACHA Automation
Description Configured a new project build configuration for an outdated enterprise Ant application. Created a new development and automatic build environment with all the modern bells and whistles.
Role *Project manager, developer*
Main technologies *Java, Ant, Maven, Jenkins, Ubuntu, JUnit, Mockito*

Period 2009 - 2010
Company JAVA360 | Self-employed
Description Built an application for finding mathematical relations based on artificial intelligence. Genetic algorithms and neural networks formed the basis of this very enthusiastic shot at fulfilling a Millennia old desire in the math field: "proofing the relation between prime numbers".
Role *Philosopher, developer*
Main technologies *Java, artificial intelligence: evolutionary algorithms, fuzzy logic, neural networks, recursion*

Period 2009 - 2010
Company ACHA Automation
Description Built a framework for communicating with the government in order to access, check, confirm, store and display confidential citizen and patient related data. Security obviously needed to be very tight and received appropriate attention. To meet all standards and to be future

ready, HL7v2 instead of custom XML was used as business data exchange protocol. (HL7 is an international healthcare informatics interoperability standard).

Role *Developer*
Main technologies *Java, Tomcat 5, Spring, Swing, Webstart, Hibernate, Web services, SSL, PostgreSQL*

Period 2008 - 2009
Company ACHA Automation
Description Built a reporting framework supporting multiple output formats such as PDF and CSV.

Role *Developer*
Main technologies *Java, Apache FOP, XSL-FO, PDF manipulation*

Period 2008 - 2009
Company ACHA Automation
Description Built a roll based authorization system for an enterprise medical health care application.

Role *Developer*
Main technologies *Java, atomic roll based authorization*

Period 2008 - 2009
Company ACHA Automation
Description Analyzed several Tomcat server crashes using live memory dumps. The memory data was analyzed using profilers like JHat and MAT which helped greatly in finding the cause.

Role *Developer*
Main technologies *Java, JHat, MAT, JConsole, Garbage collection tuning (eden, tenured, permanent)*

Period 2008 - 2009
Company ACHA Automation
Description Built an XSLT preparer framework to form the basis of an application used for generating chemical safety sheets. Page Sequence Master Interleave was used to dynamically change the page geometry based on content. The new XSLT 2.0 templates proved to dramatically reduce both code duplication and complexity in comparison with the XSLT 1.0 variants.

Role *Developer*
Main technologies *Java, Tomcat 5, Spring, Swing, XSLT 2.0, Apache FOP*

Period 2008 - 2009
Company ACHA Automation
Description Built a performance monitor, code and SQL query analyzer which did a great job on suggesting relevant indexes to create.

Role *Developer*
Main technologies *Java, Log4J, custom parsing, PostgreSQL*

Period 2008 - 2009
Company ACHA Automation
Description Built a generic import and export module.
Role *Developer*
Main technologies *Java, XML, recursion, db meta data analyzing*

Period 2007 - 2008
Company ACHA Automation
Description Trained several contracted project members in using a custom framework.
Role *Instructor, Developer*
Main technologies *Java*

Period 2007 - 2008
Company ACHA Automation
Description Extended a binary communication protocol (called Hessian) to support dynamic compression based on variables like 'stream size' and 'estimated compression rate'. Investigation proved CPU overhead and latency to be easily compensated. A smart buffer strategy (with circular ring buffers) was used to minimize memory overhead. Compression was reached with default Huffman coding; an entropy encoding algorithm used for loss-less data compression.
Role *Developer*
Main technologies *Java, Hessian, HTTP, Sockets, Buffers, Compression algorithms*

Period 2007 - 2008
Company ACHA Automation
Description Built a performance monitor for both Web and SQL transactions, so popular, low cost, high cost & never ending transactions are easily revealed. The monitoring itself was done using AOP to minimize code modifications.
Role *Developer*
Main technologies *Java, Aspect oriented programming, query planning, log4J*

Period 2007 - 2008
Company ACHA Automation
Description Built a comprehensive set of PG/SQL scripts to automatically detect, display and fix a major data discrepancy between a set of database nodes part of a big PostgreSQL cluster. Donated several useful scripts to the community providing them with tools to work around several PostgreSQL implementation limitations on introspection.
Role *Developer*
Main technologies *PostgreSQL, PL/pgSQL, dblink*

Period 2007 - 2008
Company ACHA Automation
Description Built a module for retrieving patient information based on the phonetic similarity of a given name.
Role *Developer*
Main technologies *Java, fuzzy string matching, soundex*

Period 2007 - 2008
Company ACHA Automation
Description Built a comprehensive set of generic tools (JAVA + PG/SQL) to automatically merge the six largest medical Tuberculosis databases in The Netherlands. Literally containing hundreds of tables and millions of records. The tools included: dry run reporting, mandatory custom and automatic conflict solving using business logic and the database meta data.
Role *Developer*
Main technologies *PostgreSQL, PL/pgSQL, dblink*

Period 2007 - 2008
Company ACHA Automation
Description Reviewed the code of a grid application mostly used for creating secure backups. The coding itself was done by a semi large programming team that was unable to address some serious stability and performance issues. I did some structural recommendations which resulted in solving the underlying problems.
Role *Reviewer / consultant*
Main technologies *Java, Axis*

Period 2007 - 2008
Company ACHA Automation
Description Built a stress test library for a medical health care application to test the stability and performance of a large server cluster.
Role *Developer*
Main technologies *Java, threading, pg-pool-ii, proxy ajp, mod ajp*

Period 2006 - 2008
Company ACHA Automation
Description Built a platform for educational software used at elementary schools. Providing a plugin style approach for using platform dependent applications. Teachers were able to register students for custom applications in a single click. Generic reports provided valuable feedback about study results and specific recommendation.
Role *Developer*
Main technologies *PHP, ATK, Ajax, Javascript, HTML, CSS, MySQL*

Period 2006 - 2007
Company ACHA Automation
Description Built a generic roll based web based content management system.
Role *Developer*
Main technologies *PHP, Ajax, Javascript, HTML, CSS, MySQL*

Period 2006 - 2007
Company ACHA Automation
Description Built a package style update module for websites.
Role *Developer*
Main technologies *PHP*

Period 2005 - 2006
Company SOS-IT Solutions
Description Built an email gateway and frontend interface with SMS capabilities.
Role *Developer*
Main technologies *PHP, Javascript, HTML, CSS, MySQL*

Period 2005 - 2006
Company Q-Byte| Self-employed
Description Built a chat server
Role *Developer*
Main technologies *Java, sockets*

Period 2003 - 2006
Company Q-Byte| Self-employed
Description Built a scheduling and hour declaration application for a large employment agency. The scheduling was quite complex and powered by artificial intelligence: neural networks and genetic algorithms. The scheduling results surprised most experienced human schedulers describing them to be 'near perfect'.
Role *Developer*
Main technologies *C++, SQL server, Artificial intelligence*

Period 2000 - 2006
Company Q-Byte| Self-employed
Description Built all kind of dynamic websites: E-commerce, informational, blog.
Role *Developer*
Main technologies *PHP, Javascript, HTML, CSS, MySQL*

Period 2003 - 2004
Company Q-Byte| Self-employed
Description Built an hour registration and invoice application for an accountant agency.
Role *Developer*
Main technologies *C++, SQL server*

Period 2003 - 2004
Company Q-Byte| Self-employed
Description Built a web server. Specifically designed to minimize the memory footprint and maximize throughput for retrieving documents.
Role *Developer*
Main technologies *C, sockets*

Period 2002 - 2003
Company Q-Byte | Self-employed
Description Built an application for use in a car. It was able to automatically return seat, and mirror features back to the individual preferences as soon as the driver used his key card.
Role *Developer*
Main technologies *C, PCB (hardware) engineering, PLC's*