

# CURRICULUM VITAE

version: 4.0

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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 18 years of programming experience of which 11 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 AREAS OF KNOWLEDGE

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

<b>Programming</b>	Java9⑤, Java8⑤, Java7⑤, J2EE⑤, Reactivex RxJava1/2③, Groovy④, Linux ZSH/Korn/Bash④, NGINX Lua②, Javascript③, C++③, C ③, Python②, PL/pgSQL⑤, XSLT⑤, PHP③, HTML③, Batch④, SED③, AWK②
<b>Frameworks</b>	Grails④, Vert.x③, Spring③, Apache Camel⑤, JBoss Fuse⑤, OSGI (Apache Felix, Karaf)④
<b>Messaging</b>	JMS④, ActiveMQ④, RabbitMQ②, Kafka②, Oracle Advanced Queueing②
<b>Streaming</b>	Java⑤, RxJava③, Kafka Streams③
<b>Containerization</b>	Docker④, Kubernetes③, OpenShift④
<b>Contracts / Specifications</b>	Swagger – OPENAPI④, WSDL⑤, JSON schema④, XML schema/DTD④
<b>ORM</b>	Hibernate④, GORM④, MyBatis③, GreenDAO③, Custom built⑤
<b>Databases / Persistent Storage</b>	Elasticsearch④, Solr③, PostgreSQL⑤, MySQL④, Oracle 11g②, MongoDB②, SQLite③, FileMaker②, dBase②
<b>Testing</b>	JUnit 4④, JUnit 5④, Spock④, AssertJ③, Mockito④, PowerMock②, Fitness②, SoapUI③
<b>Performance testing / Tracing / Monitoring</b>	Gatling (Scala)③, JMeter②, Open tracing – ZipKin②, Splunk③, Kibana (ELK)③, New Relic②, Cacti③, Nagios③, Munin③
<b>Build helpers</b>	Maven⑤, Gradle③, Grunt②, Ant④
<b>Designing</b>	UML④, Creational, structural and behavioral design patterns④
<b>Client / Server</b>	Netty③, Jetty③, JAX-RS③ – CXF③, Jersey③, Apache HTTP client 4④, Vert.x③, Axis 2③
<b>Mobile development</b>	Android③, Ionic①
<b>DB pooling</b>	C3PO③, JDBC pool⑤, Jakarta DBCP⑤
<b>DB clustering</b>	(Multi-master, Master-slave, Failover⑤) pg-pool-ii PostgreSQL⑤, MySQL③
<b>APP clustering</b>	Haproxy②, mod_jk③, mod_ajp③, mod_proxy④, Apache httpd④, NGINX④
<b>APP servers</b>	JBoss②, Apache Tomcat④, Glassfish②
<b>IDE's</b>	IntelliJ⑤, Eclipse④, Netbeans③, Zend③, StylusStudio④
<b>Operating systems</b>	Linux (Redhat, CentOS, Ubuntu, YellowDog, Raspberry Wheezy, etc)④, almost all Windows versions④, Unix③
<b>Issue tracking</b>	JIRA③, YouTrack③, MantisBT③, Bugzilla③
<b>CICD</b>	Atlassian Bamboo④, Jenkins④, Team City③, Hudson④
<b>Knowledge sharing</b>	WIKI④
<b>Version control</b>	GIT④, Subversion④, CVS③

<b>Methodologies</b>	Test-Driven-Development <sup>④</sup> , Extreme programming <sup>④</sup> , Dynamic systems development method (+Agile) <sup>④</sup>
<b>Artificial Intelligence</b>	Genetic algorithms <sup>⑤</sup> , neural networks <sup>③</sup> , Cybernetics and brain simulation <sup>③</sup> , fuzzy logic <sup>③</sup>
<b>JAVA libraries</b>	Jackson <sup>④</sup> , Lombok <sup>③</sup> , Guava <sup>③</sup> , event <sup>④</sup> , regex <sup>⑤</sup> , concurrent <sup>⑤</sup> , Apache Commons <sup>④</sup> , iText <sup>④</sup> , jPedal <sup>④</sup> , JGoodies <sup>④</sup> , io <sup>④</sup> , servlet <sup>④</sup> , JSON <sup>③</sup> , GSON <sup>③</sup> , Hessian <sup>⑤</sup> , log4J <sup>④</sup> , JChart <sup>③</sup> , Webstart <sup>④</sup> , JavaMail (IMAP+SMTP) <sup>④</sup> , quartz <sup>③</sup> , Xerces <sup>④</sup> , Apache FOP <sup>④</sup> . Swing <sup>④</sup> , etc....
<b>Code quality</b>	I try to: make complex things simple(r), 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** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - API team  
**Description** Developed and worked on many massively scalable restful and streaming APIs, some are available for the public, like the "Public Flight API, When to be at Schiphol API, How To Travel At Schiphol API, METEO API". Others are exclusively available for private usage or sector parties. Many of the APIs are answering millions of requests each day.  
**Role** *Developer, Partially architect and dev lead*  
**Main technologies** *OpenShift, Java8, Vert.x, Docker, Jenkins, ActiveMQ, Elasticsearch, CDI, Camel (+RestDsl + CamelRx), Swagger*

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**Period** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - API team  
**Description** Designed and implemented the framework used for streaming HTTP APIs providing HTTP Server Sent Events for clients. Leveraged Camel to conveniently integrate with source systems. Effectively providing an agnostic protocol bridge to SEE. **A complete API could be generated based on a Swagger document. Including all bells and whistles like validation, tracing, dynamic unit tests, etc.**  
**Role** *Developer and Architect*  
**Main technologies** *Java8, RxJava2, Vert.x, Swagger, Docker, Apache Camel, ActiveMQ, Kafka*

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**Period** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - API team  
**Description** *Improved the CICD environment that automatically builds, deploys and tests clusters of containers.*  
**Role** *DevOps*  
**Main technologies** *OpenShift, Cloud native Jenkins, Groovy script*

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**Period** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - API team  
**Description** Onboarded APIs to an API management platform.  
**Role** *DevOps*  
**Main technologies** *3Scale, NGINX*

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**Period** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - API team  
**Description** *Helped improving productivity by providing a complete development*

*environment with transparent access to different network segments, code, image and artifact repositories, etc. Regularly gave demos or pair programmed to share knowledge about the tech stack.*

**Role** Developer  
**Main technologies** Open Virtualization, Linux, Nexus, Minishift, OC cluster wrapper, CNTLM, IP tables, RedSocks, Docker

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**Period** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - API team  
**Description** *Integrated several source systems to the API landscape by tapping into Schiphol's Enterprise Service Bus. Created Maven archetypes for commonly used transformation / communication bundles.*  
**Role** Developer and Architect  
**Main technologies** JBoss Fuse, Karaf, OSGI, Blueprint

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**Period** 2017 - 2018  
**Company** JAVA360 | Self-employed @ Schiphol Group - ASB team  
**Description** *Created a Maven Archetype wizard as the basis of a self service concept for integrating with Schiphol's Enterprise Service Bus. Being able to match-and-mix different types of bundles.*  
**Role** Developer  
**Main technologies** Maven Archetypes, Velocity templates, JBoss Fuse, Karaf, OSGI, Blueprint

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**Period** 2015 - 2017  
**Company** JAVA360 | Self-employed @ Schiphol Group - ASB team  
**Description** *Developed dozens of interfaces, of many flavors, for integrating internal and external systems with Schiphol's Enterprise Service Bus. A few examples: baggage systems, payment systems, gate, bridge and passenger flow sensors, flight information display systems, communication with the Tower, etc.*  
**Role** Developer  
**Main technologies** JBoss Fuse (ActiveMQ, Camel, Karaf), OSGI, Blueprint WSDL, WS security, SOAP, CXF, Jetty, Netty, TLS 1.1, TLS 1.2, AMQP, STOMP, MQTT, RabbitMQ, Oracle 11G, FTPS, SFTP, Rest, Solr

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**Period** 2017 - 2017  
**Company** JAVA360 | Self-employed @ Schiphol Group - ASB team  
**Description** *Responsible for acceptance testing, release management and communication with stakeholders.*  
**Role** Application Management

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**Period** 2015 - 2017  
**Company** JAVA360 | Self-employed @ Schiphol Group - ASB team  
**Description** *Improved the CICD environment to automatically build, deploy and test interfaces on a JBoss FUSE environment. Created scripts to generate Bamboo jobs - for hundreds of projects - which before was all manual labor.*  
**Role** *Developer*  
**Main technologies** *Bamboo, Bamboo CLI, Posix scripting*

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**Period** 2015 - 2017  
**Company** JAVA360 | Self-employed @ Schiphol Group - ASB team  
**Description** *Investigated several memory usage related production issues on the ESB. Some of which had already been escalated to large consultancy companies, in vain. I was able to find the root causes and resolve the issues.*  
**Role** *Developer*  
**Main technologies** *AIX, Jhat, jmap, visualvm, custom scripting*

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**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*

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**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*

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**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*

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**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*

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**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*

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**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

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**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*

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**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*

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**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*

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**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*

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**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*

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**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)*

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**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*

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**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*

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

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**Period** 2006 - 2013  
**Company** ACHA Automation  
**Description** Built dozens of correspondence and report templates.

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**Role** *Developer*  
**Main technologies** *XSLT, Apache FOP, Java*

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**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*

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**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*

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**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*

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**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, Vjava, RDIFF, SSH, Python*

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**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*

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**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*

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**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*

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**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*

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**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*

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**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, H17v2 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*

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**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*

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**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)*

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**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*

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

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**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*

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

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**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*

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**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*

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**Period** 2007 - 2008

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**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*

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**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*

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**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*

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**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*

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**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*

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**Main technologies** *Java, threading, pg-pool-ii, proxy ajp, mod ajp*

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**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*

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**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*

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

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**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*

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**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*

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**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*

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**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*

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**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*

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**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*