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## Michael Semb Wever

**Nationality:** Australian (Norwegian residency).

**Date of Birth:** 22<sup>nd</sup> May 1977

**Objective**      **Java Senior Developer with focus on advanced problem solving, team leadership, and project design and architecture.**

**Summary**

- 8+ years Java experience including architectural design and API development, Core Java, Swing, J2EE, Struts, Tomcat, and JBoss expertise.
- 6+ years Database and Application Server installation and maintenance experience.
- Strong mathematical problem solving abilities. Disciplined in Physics.
- 5+ years Project leadership, management, and infrastructure experience.

**Professional Employment**   **Senior Developer**  
**2006-**  
**Schibsted Søk**  
**Oslo, Norway**

Senior developer to Schibsted Søk. Developing sesam.no and sesam.se federating search engines and complimentary backend administration portals.

Coordination with Schibsted Søk AS and Schibsted ASA in open sourcing under the AGPLv3 license the core architecture of the federating search engine architecture, found at Sesat.no.

- **Sesat-Kernel:** an open sourced Search Middleware with federation capabilities and a built-in search portal framework. Sesat enables a single user query to be dispatched to multiple information sources. The result is analysed, weighted and presented to the user according to configurable business rules. Built as a **modularised model-view-control architecture** specialised for a “data fetch and present” paradigm aka a search engine. With multiple architectural layers each fully extendable by defined Service Provider Interfaces (SPIs).

A number of core “commons” libraries were also open sourced:

- **Commons-IOC:** A light-weight, framework independant, addition to the Contextual Inversion of Control pattern. Suited for projects with a deep IoC rather than a broad but shallow chain.
- **Commons-Reflect:** Provides utilities to or faster implementations of classes found in java.lang.reflect
- **Commons-Reference-Map:** Very Simple Library for creating Weak or Soft Key and/or Value Reference Maps. This implementation improves over org.apache.commons.collections.map.ReferenceMap in that the synchronisation and concurrency is determined through delegation to the map supplied in the constructor as described above.
- **Commons-Visitor:** A helper implementation of the Visitor pattern using java's reflection. This results in not having to add overloaded methods for each subclass of clause as this implementation will automatically find those overloaded methods without explicitly having to call them in each Clause class. See <http://www.javaworld.com/javaworld/javatips/jw-javatip98.html>

### **Skills & Tasks**

- Java ([JavaBeans](#), [MVC](#) , NIO, concurrency & locks, Reflection & Introspection, and proxy classes),
- J2EE (JSP, Velocity, Ajax, Tomcat, Jboss, Seam, Hibernate + EJB3),
- Advanced Performance & GC tuning, with linux kernel 2.6 64-bit native optimisations,
- Lucene + Solr (Shingles, with contributions to trunk code),
- JavaCC - “a parser generator and lexical analyzer generator”,
- Visitor pattern implementations, and [binary tree rotations](#),
- Leadership in community consensus open source projects,
- Agile Project management and infrastructure setup:
  - Projects built with [Maven-2](#) and [Subversion](#)
  - Issue Tracking: [Scarab](#).
  - Regression Testing: [JUnit](#), TestNG, and Hudson.
  - Agile project leadership with the Sprint and Scrum methodologies.
  - Project website management, mantainance of [sesat.no](#).
  - Developer recruitment.

**Java Consultant**  
**2003- 2005**  
**[De norske Bokklubbene](#)**  
**Oslo, Norway**

Lead Java programmer, contracting for an employee on maternity leave. The project involves rewriting a number of different legacy web applications (SilverStream, eStore) into an Struts based J2EE application, training and educating others to the new technologies, project management, and continuous profiling and solving of performance problems. De norske Bokklubbene ('The Norwegian Bookclubs') runs 14 bookclubs responsible for publishing and distributing norwegian books, and an international book-handling club called [Mao](#). Performance considerations are critical and is one of the financial reasons for the company to have started the project along with merging the internal and external shopfronts and datasystems together.

**Skills & Tasks**

- Java ([JavaBeans](#), [MVC](#), log4j), J2EE (JSP, JMS, servlets, JSTL, Struts),
- Oracle Database and PLSql procedures,
- Performance (Oracle WebCache, and Jprofiler), and Multithreaded synchronisation,
- [XML](#) ([JDOM](#), & XSLT),
- Deployed on clustered 3-tier Oracle10g Application Server. (Oracle WebCache, Oracle Application Server, and Oracle Database). Primary administrator for WebCache and Application Servers.
- Platforms: Windows2000, WindowsXP, [RedHat](#) Linux Enterprise, [Gentoo](#) Linux,
- Project management and infrastructure setup:
  - Extensive Ant build scripts,
  - Version Control: CVS, upgraded to Subversion. ViewCVS (also for subversion) web interface.
  - Issue Tracking: [Scarab](#).
  - Regression Testing: [JUnit](#), [HttpTests](#), and StrutsTests.
  - Automated redeployment system through Version Control tagging.
  - Integration between all tools. For example, nightly builds and regression testing synchronisation to Issue tracking system (failures in the regression tests automatically reopen issues), and Version Control connectivity to Issue tracking system (all file commits are linked to an issue, any issue lists all commits made in it's lifetime).

**Java Software Engineer**  
**2003 (6 month contract)**  
**Machina AS**  
**Bergen, Norway**

Home office for 6 months. Involved work on a number of different projects, mainly on Machina's Reporting Engine/Tool. Strong focus on XML, Apache Jakarta, and NetBeans technologies. This contract greatly improved my self management and long-distance communication skills.

**Skills**

- [Java](#), [NetBeans](#), [XML](#), [JDOM](#), [Castor](#), and [FOP](#).
- [Apache Jakarta](#) open source java libraries: [Avalon](#), [Commons](#), [POI](#).
- [Ant](#) build scripts and [InstallAnywhere](#) installation binaries.
- Platforms: WindowsXP, [RedHat](#) linux, and [Debian](#) linux.

**Tasks**

- Project management and infrastructure set-up. [Intranet pages](#), integration between all tools, hosted on Apache2.
- Version Control: [Subversion](#) [[cvs](#) replacement],
- Issue Tracking: [Scarab](#) [[Bugzilla](#) replacement],
- [ViewCVS](#) (for Subversion).
- Developing GUIs for Machina's Reporting Engine. For standalone and plug-in use.
- Forward and backward compatibility.
- Pluggable into NetBeans as a module and integrating into Datasystems nodes architecture, and windowing system.
- JavaHelp embedded into applications and published on website.
- Strongly designed with [JavaBeans](#) and [MVC](#) models.
- Reuse and integration between Property Dialogs and complete step by step Wizard interfaces. (Using NetBeans APIs).
- Full internationalisation in English and Norwegian.
- Extensive [JUnit](#) tests and [XTest](#) harness to run tests every night and publish statistics on intranet.
- [InstallAnywhere](#) binaries for Windows, MacOS, AIX, Solaris, Linux, HP-UX, built automatically nightly.

## **Software Engineer**

**1998 - 2003**

**ECS International**

**3 Albert St, Mittagong, NSW 2575, Australia**

First professional job obtained during my last year of university via direct contact regarding the company's highly science orientated specialisation especially in geophysics. Programming in this field was ideal with my university education. Interest and job satisfaction here resulted in my last year at university being stretched into three.

### **Skills**

- Programming languages: Java, C / C++, Fortran.
- Large scale scripting with makefiles, and Ant.
- Platforms: Windows 2000/XP, Linux, Solaris 2.5+, and Irix.

### **Tasks**

**2002-2003:** Working remotely for 3 months from Oslo to fulfil the company's current project release deadlines. (Java/C).

**2000-02:** Rebuilding Graphical User Interfaces and Interaction models into a Client-Server 'Windows' look and feel environment. Built on top of the NetBeans OpenSource Initiative ([www.netbeans.org](http://www.netbeans.org)). In-depth experience with Java Swing, Networking & Distributed Computing, ODBC & JDBC, and Java Native Interface. The GUI client networked to the server application allowing true client-server utilisation. (Java/C)

**2002:** Contributions to the NetBeans Opensource initiative of new code, patches, documentation. Minex5 was one of the first non-IDE applications built on top of the NetBeans IDE code. This led to Sun Microsystems making the NetBeans Platform official. Sun Microsystems also supplied for me to attend the JavaOne 2002 Convention at San Francisco to demonstrate the Application Framework ('Platform') abilities of NetBeans. (Java).

**2000-02:** Project and team management, recruitment of software developers. (Java).

**2000-02:** Redesign of company programming procedures. Involving building of CVS Repositories for company source code, automatic compiling and linking of applications, and the installation of a bug tracking system Bugzilla ([www.mozilla.org](http://www.mozilla.org)).

**1999:** Enhancement and maintenance work on Application optimised OpenGL, some knowledge of Phigs and PEX, strong multi-platform compatibility. (C/Fortran).

**1998:** Geophysical programming comprising of 3D Seismic modelling, Magnetic and Gravitational Survey modelling with finite-element mathematics, and reverse transformations. (C/Fortran).

## **Voluntary Duties**

**2005-** : Active, core, developer, with commit rights, to the Scarab issue tracking open source project([scarab.tigris.org](http://scarab.tigris.org)). Contributed importing from Jira, and integration against Subversion.

**2004-** : [www.wever.org](http://www.wever.org) webmaster and administrator. Free web, email (IMAP & web interface), and photo album hosting to any Wever family member. See [www.wever.org](http://www.wever.org) front page for more information.

**2003:** NetBeans 3.6 Community Acceptance Testing program ([NetCAT](#)) [participant](#). Involved testing of the following areas to the 3.6 release candidates: Ant, CVS, JSP editor, Beans editor, View over a filesystem, Java editor, JUnit, XTest, Debugger.

**2002:** Elected on the NetBeans governance board [www.netbeans.org/about/os/who-board.html](http://www.netbeans.org/about/os/who-board.html) for 6 months. Involvement in Core, Cpp/Fortran and Image modules. Participation on openide, dev, discuss newsgroups. Continual feedback to website and product User Interfaces.

**2002-** : Sole developer and webmaster to [www.harryspractice.com.au](http://www.harryspractice.com.au) & [www.vetproducts.com.au](http://www.vetproducts.com.au) , my father's Veterinary informational and e-commerce site using Zencart (php), and Apache technologies on Hardened Gentoo.

- Apache2, Tomcat, MySQL,
- Scarab and Subversion, Discussion boards (phpBB),
- IMAP mailserver with Spamassassin.
- DNS (BIND9) administration for these domains.

## **Education**

### **Bachelor of Computing Science**

**1997 - 2001** [University of Wollongong](#)

- Major in Software Engineering,
- Second Major in Physics.
- Thesis in Robotic Software, High Distinction.
  - Modelling and Java3D,
  - Hardware communication, including Parser,
  - Reverse transformations for a 6 joint, 3 degree robotic arm.

## **Other Skills**

- St John First Aid, 2000. (First Aid Personel at ECS International.)
- Rockclimbing and snowboarding.
- Learning Norwegian.
- Gentoo Linux enthusiast. Compiling and using the bleeding edge versions of linux kernels and opensource programs. Full opensource home entertainment systems running Cable TV, DVD, CD, and Surround Sound.

## **Conferences**

- **2002** JavaOne, San Francisco. Manning of NetBeans sponsored Minex5 booth. NetBeans 'bird-of-a-feather'. NetBeans promotional 'platform' video.
- **2003,2004** JavaZone, Oslo.

**Career  
Perspective**

I have always adapted quickly and successfully to challenging responsibilities. With my time at ECS International I progressed quickly, given the responsibility of employing more developers, team management, and working remotely when desired. I have also played a part in company meetings, software direction, and have been involved in inter-company meetings as a technical expert.

My work then, involved Java and the rebuilding of legacy applications into modern looking products. Making these products client-server in architecture (and hence web-enabled) produced some very rewarding results. (It initiated my involvement in the NetBeans OpenSource community). It also built a strong skill base on the requirements of application frameworks and GUI requirements.

This work involved with the NetBeans OpenSource community has fostered a passion for working with Opensource principles and the global community. It has lead me to adopt Linux, OpenOffice, and Mozilla as personal tools to use and become involved in, dedicating many spare hours to help improve them.

After immigrating to Norway, with contract work with Norwegian based Machina AS I was able to continue my work with the NetBeans platform. I worked at home in Oslo, and provided clear project management, communication, and documentation for the tasks at hand. I was willing to travel anywhere whenever necessary. This contractual work at home also allowed me to attend the first 6 months of norwegian language classes.

Employment at De norske Bokklubbene strengthening my J2EE skills especially Struts and JSP, database management and application servers, but also continuing with XML, XSLT, and project management infrastructures. Bokklubbene also pushed me into team management and leadership roles more than ever, requiring a more professional ability to speak norwegian. Programming with Bokklubbene was not as challenging as previous jobs, in hindsight this has been positive, giving time to polish programming methods and principles up around all edges and really gain 100% confidence in using the correct convention and/or pattern, maximising performance, reusability, and scalability of code. All these improvements have been crucial in better leading other programmers.

## References

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