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Gerald Loeffler leads and works with technical teams and organisations creating software-intensive systems, particularly in the enterprise integration space. In doing so he draws on his copious project and industry experience, doing whatever it takes to consistently deliver successful projects and products. Depending on organisational context and needs, Gerald enjoys filling the role of **software development manager, project manager, Scrum master, team lead, mentor, trainer, architect** or **data scientist**. The technology domain he is intimately familiar with is object-oriented and functional software development on the JVM, often in Scala, for application development as well as system integration, using SOA, microservices, ESB-style and message-based integration and related enterprise software technologies and software engineering practices.

Gerald holds a **PhD** in Bioinformatics, an accredited **MBA** and an **MSc** in Psychology. He has attained these certifications: **TOGAF 9** Foundation, **ScrumMaster**, **PRINCE2** Foundation, MuleSoft **Trainer**, MuleSoft Certified **Platform Architect** Level 1, **Kubernetes Application Developer**, Apache **Spark Developer**, **Guidewire Technical/Integration**, **Java EE Enterprise Architect**, **EJB Developer**, **Java Programmer**, **Mule ESB Developer**, MuleSoft **Connector Developer**, **API Designer** with RAML.

## Professional Experience

**from 4/2017: Senior Curriculum Developer and Technical Instructor** EMEA, MuleSoft (full-time contractor)

Creation of training material and courses in the area of enterprise and integration solution architecture and occasional delivery of courses of this kind to MuleSoft customers in EMEA.

- Proposal, design and development of a new training course that teaches experienced Enterprise and Solution Architects how to architect and design API-centric cloud-native applications for Anypoint Platform, MuleSoft's multi-cloud API and enterprise integration development and deployment platform. See <https://training.mulesoft.com/instructor-led-training/aparch-application-networks>.
- Enablement of selected instructors from MuleSoft's training team to teach this course
- Design and development of the accompanying certification (MuleSoft-Certified Platform Architect)
- Lead the re-development of a course targeting Technical Architects for applications on Mule 4, MuleSoft's reactive integration runtime
- Consulting for the development of a new training course covering the operation of MuleSoft's Kubernetes-based deployment environment
- *Java, Maven, Mule runtime, Docker, Kubernetes, AWS, RAML*

**11/2015 – 2/2017: Head of Development**, Cortical.io, Vienna (permanent employment)

Growing and professionalising the software development organisation of a start-up in the NLP and semantic text processing space, with slightly less than a dozen data scientists and software engineers, engaged in professional services and pre-sales customer projects as well as internal software product development.

- Creation of *recruitment and people management processes* and *management of the technical team* accordingly.
- Establishment of a project-centric *organisational structure and processes* for customer projects and product development.
- Steering of long-term *product direction* and short-term *scope* of activities within this structure.
- Refinement and standardisation of *software engineering practices*.

- Contribution to day-to-day technical activities as *project manager/Scrum master, architect and developer*.
- *Scala, Java, Spring Boot, Apache Spark, AWS, natural language processing, machine learning*.

**3/2014 – 10/2015: Principal Solutions Architect** EMEA, Professional Services, MuleSoft (permanent employment through German subsidiary; initially: Senior Solutions Architect)

Consultant in integration architecture and implementation for MuleSoft's clients.

- *Insurance company, London, 16 weeks*: technical guidance to large offshore Mule ESB development team; performance investigations and analysis of complex service-oriented system. Mule ESB, Guidewire Insurance Suite, Spring Framework, SOAP/WSDL, XSD, CXF, clustered ActiveMQ, JMS, Teradata, Oracle, Java, JMX, Maven; data analysis using Spark/Scala.
- *Retailer, London, 17 weeks*: project management and technical leadership, formulation of microservices-based integration software development meta-architecture, framework and continuous delivery pipeline and its exemplary realisation through a few production services. Mule ESB, Spring Framework, RESTful APIs, SOAP/WSDL, XSD, CXF, REST, JSON, JSON-Schema, SAP ERP, Java, Jenkins, SOAPUI, Maven and plugins.
- *Energy utility company, Nottingham, 2 weeks*: architecture and project proposal for phased realisation of complex system replacement initiative.
- *Supermarket chain, Germany, 7 weeks*: enterprise integration architecture and phased legacy modernisation concept for this international German-owned retailer, addressing both HQ and distributed store systems.
- *Media venture, Sweden, 4 weeks*: performance-focused architecture proposal, prototyping and evaluation thereof for greenfield AWS/EC2-hosted video streaming platform. CloudHub, Amazon VPC, Amazon ELB, nginx, RESTful APIs, JMeter; data analysis using Spark/Scala.
- *Insurance company, London, 10 weeks*: development for a new cloud-hosted Salesforce-to-legacy data replication solution; designed and implemented the legacy-facing component exposing web services and encapsulating complex data consolidation and transformation. Salesforce, AWS-hosted iPaaS CloudHub, Spring Framework, SOAP/WSDL/XSD, CXF, JSON, Jackson, Java, Maven.

**1/2008 – 2/2014: Senior Integration Architect** EMEA, Professional Services, Guidewire Software (permanent employment through German subsidiary; initially: Integration Architect)

Customer-facing, project-centred delivery management, architecture, design, development and training for integrating next-generation core insurance systems into an organisations enterprise IT systems.

- Guidewire's *Technical Lead* and *integration team project manager* for the inception, pre-development and early development phases of a large-scale core insurance systems (policy, billing, claims) replacement project at an insurance carrier in London, UK. 7 Months duration. Large distributed development team. Java EE web profile, Guidewire ClaimCenter, PolicyCenter, BillingCenter, ContactManager and platform APIs, Mule ESB, Axis, Oracle 12g.
- *Integration Architect*, Guidewire's *Technical Lead* and *integration team project manager* for the inception and development phases of a project replacing two claims systems of an insurance carrier in Milan, Italy. 18 months duration, approx. 15 people in development project team. Java EE web profile, Guidewire ClaimCenter and platform APIs, Axis. IBM WebSphere MQ, Oracle 11g, JBoss AS.
- *Integration Architect*, Guidewire's *Technical Lead* and *integration team project manager* for a project implementing a billing system at an insurance company in Warwickshire, UK. 17 months duration, approx. 18 people in development project team. Java EE web profile, Guidewire BillingCenter and platform APIs, Axis. IBM WebSphere MQ and Broker, Microsoft SQL Server, Tomcat.
- Delivery of in-depth hands-on technical workshops and presentation of various technical aspects of Guidewire software products to a wide range of audiences in a *pre-sales* context.
- Development of *training courses* targeting developers and architects integrating with Guidewire software products, and delivery thereof to several Guidewire customers in the USA.

**3/2007 – 12/2007: Senior Architect/Developer**, ObjectLab Financial Ltd, London (permanent employment)

Internal enterprise Java software development for a financial software product targeted at the investment banking market.

- Motivated and led the architectural refactoring of this large Java EE application to leverage dependency injection and AOP principles using Spring 2.5.
- Added an ESB-style integration frontend to said application using Mule 1.4 and a distributed store-and-forward messaging fabric using ActiveMQ 4.1.1, and used this to interface with an external financial system.
- Designed and implemented a message-centric XML data export/import sub-system using JAXB 2.1 and Dozer 4.2.

**9/2006 – 2/2007: Enterprise Architect and Team Lead Architecture and Java Software Development, ING Direct (ING-DiBa) Austria, Vienna (permanent employment)**

Contributed to the establishment of a Java EE-based SOA and BPM strategy and managed a team of 2 architects and 9 Java software developers (both internal and external; hiring 4).

- Augmented an existing Java-only SOA with WS-I Basic Profile conformant web service bindings based on JAX-WS 2.1 and JAXB 2.1. Drove the modernization and re-design of the corresponding service interfaces and implementations.
- Led architecting and implementing a complete end-to-end blueprint for BPM (business process management) through transactional service orchestration and human task handling with JBoss jBPM.
- Improved software engineering foundations by prioritizing fully-automated build/package/deploy, product versioning, continuous integration and a rounded SOA-compatible automated test approach.
- Argued for the extension of the principles of componentisation and separation-of-concern beyond the Java sphere across the entire enterprise software architecture.

**6/2005 – 5/2006: Enterprise Software Architect, ShipServ Ltd, London (permanent employment)**

Identification, evaluation and recommendation of software architectural choices; implementation of enterprise Java software following these architectural guidelines; supporting the IT team in the adoption of new software development and software engineering technologies.

- Comprehensive re-design of ShipServ's software architecture around SOA (Service-Oriented Architecture) principles: WSDL-first approach to establish a WS-I Basic Profile conformant document-centric web service layer using JAX-WS 2.0. Re-use of the established XML vocabularies OASIS UBL 1.0 and xAL 3.0. Java EE 5.0 on JBoss 4.
- *Application architect* and *developer* for ShipServ Pages, a web-based maritime supplier search service, as a proof-of-concept for this architecture and a strategically important product for ShipServ. JSF, JAX-WS 2.0, EJB 3.0, JBoss 4, Tomcat 5.5.

**4/2005 – 5/2005: Technical Architect, Enterprise Java Solution Centre, Capgemini UK, London (permanent employment)**

**2/2001 – 2/2005: Consulting Java Architect, Professional Services, Sun Microsystems (permanent employment through Austrian subsidiary)**

Advising Sun's customers on various aspects of enterprise software development, often as project manager, software architect, object-oriented designer, Java developer and mentor in medium-size enterprise software development projects at customer sites for several months. Selected projects and roles:

- *Lead Architect* for "T-Com ID Server", a Liberty-compliant identity management and Single-Sign On solution for a German telecom's customer-facing web applications, integrating existing identity systems. Essen, Germany. 3 months duration, approx. 15 people in project team. J2EE, Spring framework, Struts, SourceID Liberty client framework. IBM WebSphere application server and MQ, Oracle 9.2 RAC, Sun Java System Web Server, Access Manager and others.
- *Technical Project Manager* for the largest Austrian telecom's 2nd-generation implementation of the "A1 Organizer", a multi-device (web, WAP, PDA, SMS) wireless portal. 3 month duration, 7 people in project

team. Complete range of Sun Java Enterprise System 2 software products, including Portal, Application and Identity Server.

- *Portal Architect* for the largest Austrian telecom's "Vodafone Mail" portal application for mobile phone devices. 4 month duration, 5 people in project team. System architecture, mentoring.
- *Developer* for a large German telecom's "Legal Mail Interception" project in Düsseldorf, Germany. 3 month duration, 6 people in project team. J2SE, JavaMail, JNDI; SunONE Messaging Server and Directory Server.
- *Component Lead* and *Project Manager* for the largest Dutch telecom's Multimedia Messaging Service (MMS) implementation and iMode-MMS-Gateway, respectively, in Den Haag, The Netherlands. 7 month duration, approx. 12 people in project team. Prince2 project management methodology; J2EE (EJBs, Servlets, JavaMail); LogicaCMG wireless infrastructure products (MMSC, WSB, Wap-Gateway, Push Proxy Gateway); SunONE enterprise software products: Application Server, Message Queue, Directory Server.
- *Technical Project Manager* for the largest Austrian telecom's "A1 Organizer" (see above). 7 month duration, approx. 13 people in project team. PRINCE2 project management methodology; J2EE (JSPs, Servlets); SunONE enterprise software products: Portal Server, Messaging Server, Calendar Server, Application Server, Directory Server.
- *J2EE Architect* for project at a large German Bank in Frankfurt developing a distributed private banking portfolio management system. 5 month duration, approx. 30 people in project team. J2EE (EJBs, JMS), Swing; BEA WebLogic 6.1, Oracle 9i, IBM MQSeries.
- *Consultant* for architecture, OO-design and prototype implementation for high-throughput execution platform for intelligent software agents at an Austrian start-up. 6 month duration, 8 people in project team. J2SE; IBM DB2.

**3/2000 – 1/2001: Software Architect**, Research Institute of Molecular Pathology, Vienna (fixed-term employment)

Requirements engineering, architecture, design and implementation in Bioinformatics software development projects:

- JMIMS, an enterprise information management system for the production and usage of cDNA microarrays in support of the in-house microarray facility. J2EE (JSPs, Servlets), OQL; Tomcat, POET OODBMS.
- A web-based data-management system for protein sequence analysis. J2EE (JSPs, Servlets), OQL; Tomcat, POET OODBMS.

**9/1999 – 1/2001: Contractor** in object-oriented analysis, design and implementation in Java (self-employed)

- *Analyst* and *Requirements Engineer* for a workflow project at MorphoSys AG (medium-sized German biotechnology company) in Munich, covering the scientific core competency of that company (antibody generation). approx. 4 month duration. Interviews, use-case modelling, OOA, UML; Java prototype implementation.
- *Java Web component developer* for small Austrian software company. HTML/JavaScript, Applets, J2EE (JSPs, servlets), XML, XSLT; Tomcat, Oracle8i; Linux.

**3/1999 – 2/2000: Software Developer and Software Architect**, Apollo Imaging, Vienna (permanent employment)

*Architecture, design and implementation* of client tier and application server tier of an Intra/Internet front-end to a multimedia database. HTML/JavaScript, Applets, J2EE (JSPs, servlets), XML, XSLT; Apache Web Server, Tomcat, Oracle8i; Irix.

**2/1998 – 2/1999: Bioinformatics Scientist**, Boehringer Ingelheim R&D, Vienna (permanent employment)

- *Requirements engineering, functional specification and project management* for outsourced Bioinformatics (functional genomics) software development projects.
- *Data science, design and implementation* of numerical/statistical algorithms using R for the analysis of DNA microarray data and their correlation with clinical data.
- Protein and DNA sequence analysis.

**2/1997 – 1/1998: Postdoctoral Research Scientist**, Research Institute of Molecular Pathology, Vienna (fixed-term employment)

*Scientific software development and data science* in Bioinformatics (Langevin and Molecular Dynamics, electrostatic potential of proteins). Java, C++, Fortran, scientific visualization; Irix, Linux, Windows.

**12/1994 – 5/1996: UNIX system and network administrator**, Molecular Dynamics group, Institute for Theoretical Chemistry, University of Vienna (fixed-term employment)

Workstations by SGI, HP and Sun

**10/1994 – 1/1995: Tutorial leader** for Parallel Algorithms in the Computer Simulation of Bio-molecules at the Institute for Theoretical Chemistry, University of Vienna (fixed-term employment)

**7/1989 – 6/1994: Contractor in software development**, university tutorial demonstrator and other part-time jobs in chemistry/biology laboratories

## Education, Certification, Training

Please note that most professional certifications expire: given below is the date of the original certification; no claim is made that these certifications are still valid.

**10/2018: TOGAF 9 Foundation**

**7/2018: MuleSoft Certified Platform Architect - Level 1**

**5/2018: Certified Kubernetes Application Developer (CKAD)** awarded by Cloud Native Computing Foundation (CNCF)

**5/2017: MuleSoft Certified Developer - Integration and API Associate**

**7/2015: Certified Developer on Apache Spark** awarded by O'Reilly Media

**2/2015: MuleSoft Certified Trainer**

**12/2014: Associate API Designer with RAML** awarded by MuleSoft

**12/2014: Associate MuleSoft Connector Developer**

**7/2014: Certified MuleSoft Developer** for Mule ESB 3.5

**3/2014: Associate Mule Developer** for Mule ESB 3.4 certification awarded by MuleSoft

**6/2013: CELI 3** upper intermediate (B2) Italian language certificate by the University for Foreigners Perugia

**4/2013: Oracle Certified Master Java EE 6 Enterprise Architect**

**3/2013: Oracle Certified Expert Java EE 6 Enterprise JavaBeans Developer (EJB Developer)**

**3/2011: Guidewire ClaimCenter 6.0 Technical Certification** (Integration)

**2/2009 – 6/2012: Master of Science (MSc) in Psychology** (Distinction) at The Open University

**10/2008: Certified ScrumMaster** awarded by the Scrum Alliance

**1/2008: Guidewire Integration Certification**

**12/2007: Sun Certified Enterprise Architect** for the Java Platform, Enterprise Edition 5 (SCEA for Java EE 5)

**5/2003 – 10/2006: Master of Business Administration (MBA)**, accredited by AMBA, AACSB and EFMD/EQUIS, at The Open University Business School

**6/2004: Cambridge Certificate of Proficiency in English (CPE)** (grade A), the highest level (C2) of the Cambridge exams in English for speakers of other languages

**6/2004: Intensive 2 weeks hands-on training on Test-Driven Development** at XPLabs

**4/2003: PRINCE2 Foundation** project management certification

**11/2001: Principles of Managing Iterative Development** (i.e., the Rational Unified Software Development Process) by Rational University

**6/2001: Enterprise Development with iPlanet Application Server 6.0 Enterprise Edition** by iPlanet

**11/1998: Sun Certified Java Programmer 1.1**

**5/1995 – 7/1995: Training and Research on Advanced Computing Systems (TRACS)** at *Edinburgh Parallel Computing Centre (EPCC)* sponsored by the Human Capital and Mobility Programme of the EU

**5/1994 – 1/1997: Doctor rerum naturalium (Dr. rer. nat., PhD)** in **Bioinformatics** in Prof. Steinhauser's group at the University of Vienna. PhD thesis entitled "*The Calculation of the Dielectric Properties of Many-Component*

*Systems from Molecular Dynamics Simulations*". Software development and data science in Java, C++ and Fortran.

**10/1987 – 5/1994:** Magister rerum naturalium (Mag. rer. nat., equivalent to Bachelor of Science (**BSc**) plus Master of Science (**MSc**)) in **Biochemistry** at the University of Vienna. Masters thesis in the area of Bioinformatics entitled "*Efficient and Correct Treatment of Electrostatic Interactions in Molecular Dynamics Simulations of Hydrated Systems*". Software development and data science in C.

**9/1975 – 6/1987:** School in Vienna

## Skills

**Languages:** German (native), English (mastery, C2), Italian (upper intermediate, B2)

**Knowledge domains:** biochemistry, bioinformatics, computational biophysics, applied statistics, data science, machine learning, natural language processing, mathematics, software engineering, general (P&C) insurance, project management

**Software development:** system integration, system and software architecture, service-oriented architecture (SOA) and design incl. microservices and RESTful design, design patterns for distributed and concurrent software, distributed and parallel computing, object-oriented analysis and design (OOA&D), relational database design

object-oriented programming (OOP), functional programming (FP), object-relational mapping (ORM)

test-driven development (TDD), continuous integration (CI), continuous delivery

Scrum, Agile, Rational Unified Process (RUP)

Anypoint Platform, AWS (EC2, VPC, ELB), Kubernetes, Docker

Java EE, Akka, Apache Spark, Spring Boot, Spring, Mule ESB/runtime, Guidewire

JBoss, Tomcat, GlassFish, WebSphere, WebLogic

Oracle, MySQL, MSSQL Server, IBM DB2

Scala, Java, Gosu, Python, R, Matlab/Octave, C++, C, Fortran, Unix Shell

networking concepts

## Publications and Public Presentations

**[33]** *Advanced Security Implementation on Mule 4 and Anypoint Platform*, presentation at MuleSoft Summits in Amsterdam and London on 22 and 23 May 2018.

<http://www.gerald-loeffler.net/download/advanced-security-impl-2018-05-23.pdf>

<http://www.mulesoftevents.com/events/mulesoft-summit-amsterdam-spring-2018/agenda-fcf520ed324d44959b78522c68b.aspx>

<http://www.mulesoftevents.com/events/mulesoft-summit-london-spring-2018/agenda-5cbbf909cd644e98ac582f85e839cde.aspx>

**[32]** *Fault-tolerant REST API Invocations in an Application Network*, presentation at MuleSoft Summit Amsterdam on 23 Oct 2017.

<http://www.gerald-loeffler.net/download/fault-tolerant-rest-api-invocations-2017-10-23.pdf>

<http://www.mulesoftevents.com/events/mulesoft-summit-amsterdam-2017/agenda-c0dee20810aa4a31b9773ab76d21bedd.aspx>

**[31]** *Big Data Semantic Fingerprinting*, presentation at Big Data Vienna Meetup on 17 Mar 2016.

<http://www.slideshare.net/Dataconomy/big-data-semantic-folding-dr-gerald-loeffler-head-of-development-at-corticalio>

<http://www.meetup.com/Big-Data-Vienna/events/227415099/>

**[30]** *High-Level Concurrency: Akka Actors and Java EE 7 EJBs*, presentation at London Scala User Group on 5 Feb 2014.

[http://www.gerald-loeffler.net/download/high\\_level\\_concurrency\\_scala\\_lsug\\_2014-02-05.pdf](http://www.gerald-loeffler.net/download/high_level_concurrency_scala_lsug_2014-02-05.pdf)

<https://skillsmatter.com/meetups/1993-high-level-concurrency-akka-actors-and-java-ee-7-ejbs>

<http://lsug.org/>

**[29]** *Contemporary Concurrency Comparison: Akka Actors, Scala 2.10 Futures and Java EE 6 EJBs*, presentation at Vienna Scala User Group on 22 May 2013.

- [http://www.gerald-loeffler.net/download/concurrency\\_akka\\_javaee6\\_2013-05-22.pdf](http://www.gerald-loeffler.net/download/concurrency_akka_javaee6_2013-05-22.pdf)  
<http://www.meetup.com/scala-vienna/events/108059412/>  
<http://scala-vienna.org/>
- [28] *Selected Topics in Java Web Application Development*, guest lecture in “Web Engineering I” at the Vienna University of Economics and Business Administration on 27 October 2008.  
[http://www.gerald-loeffler.net/download/java\\_web\\_app\\_dev\\_2008-10-27.pdf](http://www.gerald-loeffler.net/download/java_web_app_dev_2008-10-27.pdf)  
<http://isc.wu-wien.ac.at/docs/coursesinenglish/Gruber.pdf>
- [27] *Contemporary Application Integration: ESBs and SCA*, presentation at JavaDeus 08 - Sun Microsystems Austria Java Developer Conference on 19 June 2008.  
[http://www.gerald-loeffler.net/download/integration\\_javadeus08\\_2008-06-19.pdf](http://www.gerald-loeffler.net/download/integration_javadeus08_2008-06-19.pdf)  
<http://at.sun.com/sunnews/events/2008/jun/javadeus08/agenda.jsp>
- [26] *Mule and Message-Based Integration - Using an ESB*, presentation at a “Java Abend” in Vienna on 21 October 2007.  
[http://www.gerald-loeffler.net/download/mule\\_javaabend\\_2007-10-22.pdf](http://www.gerald-loeffler.net/download/mule_javaabend_2007-10-22.pdf)
- [25] *Mule as an ESB-like Integration Frontend to Java EE Applications*, presentation at the Enterprise Java User Group London on 25 June 2007.  
[http://www.gerald-loeffler.net/download/mule\\_ejug\\_2007-06-25.pdf](http://www.gerald-loeffler.net/download/mule_ejug_2007-06-25.pdf)  
<http://video.google.com/videoplay?docid=-4095445193456341022>  
<http://www.ejug.org.uk/events>
- [24] *Enterprise Java: central concepts in Java EE 5* (German), 2-day course at the Institute for Systems Software at the University of Linz on 9/10 March 2006.  
<http://www.ssw.uni-linz.ac.at/Teaching/Lectures/SpezialLVA/Loeffler/>
- [23] *Developing Java EE 5.0 applications with EJB 3.0 and JSF*, presentation at Java Special Interest Group London on 26 Jan 2006.  
[http://www.gerald-loeffler.net/download/javaee5\\_jsig\\_london\\_2006-01-26.pdf](http://www.gerald-loeffler.net/download/javaee5_jsig_london_2006-01-26.pdf)  
<http://209.235.197.109/seminars/2006/London/26January2006.html>
- [22] *J2EE: Introduction, Practice and Software Architecture*, 2-day course at the Institute for Systems Software at the University of Linz on 3/4 March 2005.  
[http://www.ssw.uni-linz.ac.at/Teaching/Lectures/SpezialLVA/Loeffler/SS2005/j2ee\\_introduction\\_and\\_practice.pdf](http://www.ssw.uni-linz.ac.at/Teaching/Lectures/SpezialLVA/Loeffler/SS2005/j2ee_introduction_and_practice.pdf)
- [21] A. Juen, G. Löffler, *An Evaluation of Popular Java Object/Relational Mapping Tools*, Sun Microsystems-internal report, 2004
- [20] *J2EE: Introduction and Practice*, 2-day course at the Institute for Systems Software at the University of Linz in March 2004.
- [19] G. Löffler, *Java in Space - JavaSpaces* (German), *JavaMagazin*, 2/2004.  
[http://entwickler.com/itr/online\\_artikel/show.php3?nodeid=97&id=489](http://entwickler.com/itr/online_artikel/show.php3?nodeid=97&id=489)
- [18] *Building Web Applications in Java - Foundation and Best Practices*, power workshop at W-JAX - Conference for Web Services, Java, Apache, XML in Munich, Germany on 4 Nov 2002.  
[http://www.w-jax.com/konferenzen/show.php3?id=19&nodeid=&\\_language=uk](http://www.w-jax.com/konferenzen/show.php3?id=19&nodeid=&_language=uk)
- [17] *Enterprise Messaging Architectures with JMS and XML*, presentation with Marian Kuffner at Net.ObjectDays 2002 in Erfurt, Germany on 10 Oct 2002.  
<http://www.old.netobjectdays.org/node02/de/Conf/publish/agenda.html#4-06%20Donnerstag%206.track>
- [16] *Java Message Service*, power workshop at JAX2002 - Conference for Java, XML and Web Services in Frankfurt, Germany on 17 May 2002.  
<http://www.jax2002.com/show.php3?id=32&nodeid=>
- [15] *Using Message Driven Beans*, presentation at the Vienna Java User Group on 22 April 2002.  
[http://www.javausergroup.at/events/Message\\_Driven\\_Beans.pdf](http://www.javausergroup.at/events/Message_Driven_Beans.pdf)
- [14] G. Löffler, P. Steinlein, *JMIMS - the Java Microarray Information Management System*, Microarray Data Standards Meeting in Heidelberg, Germany (2000).
- [13] B. Eisenhaber, P. Bork, Y. Yuan, G. Löffler, F. Eisenhaber, *Automated annotation of GPI anchor sites: case study C. elegans*, *Trends Biochem Sci.*, 25 (7), 340-341 (2000).  
[http://dx.doi.org/10.1016/S0968-0004\(00\)01601-7](http://dx.doi.org/10.1016/S0968-0004(00)01601-7)  
<http://www.gerald-loeffler.net/download/loeffler13.pdf>

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<http://www.gerald-loeffler.net/download/loeffler12.pdf>
- [11] *BioSymphony Beans: Software Components and Data Models for Bioinformatics*, presentation with Anatoli Krassavine at Objects in Bioinformatics Conference in Hinxton, UK, 1998.
- [10] G. Löffler, *Poisson-Boltzmann Calculations vs. Molecular Dynamics Simulations for Calculating the Electrostatic Potential of a Solvated Peptide*, *Theoretical Chemistry Accounts*, 101 (1-3), 163-169 (1999).  
<http://dx.doi.org/10.1007/s002140050424>  
<http://www.gerald-loeffler.net/download/loeffler10.pdf>
- [9] G. Löffler, *A Multithreaded Java Framework for Solving Linear Elliptic Partial Differential Equations in 3D*, *Scientific Computing in Object-Oriented Parallel Environments*, *Lecture Notes in Computer Science*, 1343, 121 - 128 (1997).  
<http://www.springerlink.com/content/n84028232l2x1143/>  
[http://dx.doi.org/10.1007/3-540-63827-X\\_52](http://dx.doi.org/10.1007/3-540-63827-X_52)  
<http://www.gerald-loeffler.net/download/loeffler9.pdf>
- [8] G. Löffler, H. Schreiber, O. Steinhauser, *Calculation of the Dielectric Properties of a Protein and its Solvent: Theorie and a Case Study*, *Journal of Molecular Biology*, 270 (3), 520 - 534 (1997).  
<http://dx.doi.org/10.1006/jmbi.1997.1130>  
<http://www.gerald-loeffler.net/download/loeffler8.pdf>
- [7] G. Löffler, H. Schreiber, O. Steinhauser, *The Frequency-Dependent Conductivity of a Saturated Solution of ZnBr<sub>2</sub> in Water: A Molecular Dynamics Simulation*, *Journal of Chemical Physics*, 107 (8), 3135 - 3143 (1997).  
<http://dx.doi.org/10.1063/1.474703>  
<http://www.gerald-loeffler.net/download/loeffler7.pdf>
- [6] O. Steinhauser, H. Schreiber, G. Löffler, W. Kleinert, *Parallel Biomolecular Simulation: Theory, Algorithms and Implementation*, *Simulation Practice and Theory*, 5, 573 - 603 (1997).  
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