Curriculum Vitae

Personal

NAME	Normen Müller
NATIONALITY	German
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Personal Profile

- Ph.D. in Computer Science: Comprehensive knowledge on theoretical foundations of change management and on formal (mathematical) methods
- 7 years of experiences in software specification, engineering, and project management
- Strong analytical skills, teamwork, initiative, resilience, in-depth knowledge of object-oriented and functional paradigms

Educational Background

SINCE JUL. '05	Ph.D. student in Computer Science at Jacobs University Bremen, Germany, graduation in March 2010 <i>Topic</i> : Change Management on Semi-structured Documents http://code.google.com/p/locutor <i>Focus:</i> Specification and implementation of algorithms for semi-automated change management on XML documents, semantic difference analysis, change impact analysis, and automatic adaptation to changes
Jul. '05 – Jul. '06	Ph.D stipend at Jacobs University Bremen
Ост. '95 – Sept. '05	Study of Computer Science at Technische Universität Darmstadt, Germany. Study was deferred to establish the <i>apartis</i> AG, leaving the company in 2002 to continue the study, completion of the diploma thesis at the Jacobs University Bremen Degree: Diploma (equivalent to a Master), grade 2.0^1 Majors: Semantic and program verification, mathematical logic, algebra, and mathematical foundations in functional programming Minors: Mathematics, information management Thesis: Representations of VeriFun programs and proofs in OMDoc, grade 1.0
Sept. '82 – Jun. '95	School education at Stefan-George-Gymnasium, Bingen, Germany <i>Degree:</i> Abitur (university-entrance diploma), grade 2.5 <i>Major</i> : Mathematics, Physics, English, and Geography

 $^{^{1}}$ The German grading system is based on a scale of 1 to 5, with 1 being the highest and 5 denoting "fail".

Work Experiences

since Jan. '09	Developer at the Scala XML project. <i>Responsibilities:</i> Specification and implementation of new core algorithms for XML processing based on explicit variance annotations on type constructors, existential types, and fundamentals on equality theory for pattern matching.
since Jan. 09	Contributor in the specs project (http://code.google.com/p/specs). The project aims at developing a Behavior-Driven-Design framework for the creation of software specifications. <i>Responsibilities:</i> Create test cases, code reviews.
since Jan. '08	Project leader of the Ontology-Driven Management of Change project at the German Research Center for Artificial Intelligence <i>Responsibilities:</i> Specification and implementation of core algorithms for change management on XML documents
SINCE MAR. '07	Project leader of the JOMDoc project http://omdoc.org/jomdoc <i>Responsibilities:</i> Coordination of the development of a collection of Java libraries for the manipulation of documents in the Open Mathematical Document (OMDoc) format (http://omdoc.org)
SINCE JUL. '07	Contributor in the SVNKit project (http://svnkit.com). <i>Responsibilities:</i> Create test cases, specification and implementation of core algorithms and code reviews.
Jul. '05 – Dez. '07	(Remote-) Developer in the ConneXions project (http://cnx.org). <i>Responsibilities:</i> Administration of the German ConneXions instance at Jacobs University Bremen, integration of OMDoc and porting the system infrastructure from CVS to Subversion.
Jul. '05 – May '07	Teaching assistant to Michael Kohlhase (Jacobs Univ.) <i>Responsibilities:</i> Supervising the seminar "Semantic Web and Knowledge Representation" as well as the lectures "Computational Semantics for Nat- ural Language" and "General Computer Science"
Ост. '04 – Feb. '05	Teaching assistant to Prof. K. Weihe (Technische Universität Darm- stadt) <i>Responsibilities:</i> Supervising a lecture on programming in C++
Feb. '99 – Jun. '99	Consultant at <i>Centeon Bio-Services Inc.</i> (now Aventis Bio-Services Inc.), Knoxville, US, on behalf of <i>apartis</i> <i>Responsibilities:</i> Business information management, system implementa- tions, ORACLE databases support, and project validation
Jan. '98 – Dec. '02	 Project manager at the apartis Information Management AG, co-founder, member of the board of directors http://www.apartis.com The apartis team develops individual software for medium and large enterprises, in particular, for the pharmaceutical industry and offers consulting and training services. The company is based in Germany and has an international clientele. Responsibilities: Consulting, client support, object-oriented analysis and design, frontend and backend programming (C, C++, Visual C++, Java, and SQL), in-house and company-external training Projects: Database for Hoppenstedt, BASIS-Online for Berentzen, Encryption/ test algorithms for various projects, MicroLab3 for EnBW, pharmaceutical ReportTool for Hamilton

Mai '95 – Dez '97	System developer at microtec electronic GmbH Responsibilities: Development of software for Windows $3.11/95/NT$ and UNIX using SQL-Windows, Java, and C/C++, implementation of client- server applications, development tools, and libraries, database design and tuning (mainly ORACLE and Microsoft SQL-Server), object-oriented anal- ysis and design using UML, implementation of encoding and verification algorithms
Memberships	
SINCE JUN. '07	Member of the Mathematical Knowledge Management Interest Group http://www.mkm-ig.org/
since Jun. '07	Member of the OpenMath (http://www.openmath.org) society The society specifies the XML-based OpenMath format for the machine- processable representation of mathematical formulae. MathML (http: //www.w3.org/math) specifies a display format for mathematical formu- lae, which is supported by most browsers. <i>Contributions:</i> Reference implementation for the OpenMath to presenta- tion MathML conversion
Mar. '06 – Mar. '08	Member of the Anti-Discrimination Club at Jacobs University Bremen, treasurer, since Jun. '07 president
Miscellaneous	
LANGUAGE SKILLS	German mother tongue English fluent Latin, French basic knowledge
Operation Systems	Linux/ Unix, Mac OS X, Windows NT/ 2000
Programming Languages	Scala/ Java (Parsing, Regular Expressions, XML processing, Threads, Collections, EJB, JDBC, JSP, Swing, Reflection, Networking), C, C++, C#, F#, Lisp, Haskell, SML, Prolog, PHP, Python, SQL, bash, ILOG OPL
Web Technologies	XML, (X)HTML, XSLT, CSS
Database Technologies	Oracle 8/ 9 i, MySQL, MS Access, MS SQL Server, PL/ SQL
Frameworks	.NET, Specs, ScalaCheck, ScalaTest, Struts, JUnit, Log4J, Zope, Plone
IDE/ Tools	Eclipse, IntelliJ, Netbeans, JBuilder, XCode, MS Visual Studio, Emacs, CVS/Subversion, Together, Rational Rose, UML, desing patterns, CMS, DMS, and MS Office
Certificates	Logic Works ERwin, Logic Works BPwin, Windows NT
Hobbys	Tennis, swimming, and Science Fiction