

Andreas M. Keilhauer

Personal Details

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Date of Birth: May 27, 1980

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Education

2000-2006	Informatik Diplom – roughly equivalent to MSc Computer Science – at Passau University in Germany. Final Grade: 1.5 (A)
2003-2004	One academic year at the University of Edinburgh studying Computer Science (final year). Completed the MSc exams successfully (Top 10%).
1999	Abitur (roughly equivalent to A-Level) at the Max-Reger-Gymnasium in Amberg (Germany)

Work Experience

Since Apr 2015	<p>Expansion and maintenance of the project ElsaMarke and handover to the customer's in-house team:</p> <ul style="list-style-type: none">• Successful participation in a tender procedure• Specification of new features in close coordination with the customers• Further development of the Eclipse RCP clients• Implementation of new server functionality using JavaEE/Jboss• Trainings for developers
Oct 2010 – Mar 2015	<p>Freelance software developer and IT consultant for the project EISAMarke to develop a fully electronic file management for German and international trademarks</p> <ul style="list-style-type: none">• Developing XML interfaces to communicate with the World Intellectual Property Organization (WIPO) based on the ST.66 standard, working directly with their development team (implementation using JAXB)• Coordinating web services to the <small>Document</small> Management System, Digitization Center and integrating the Enterprise Service Bus using JAXB• Designing a task and work distribution system after extensive analysis of the requirements of the national authority• On-going development of the existing Java-EE based server and the corresponding database model, to allow for a transition to a fully electronic file management• Central service interfaces for the Eclipse RCP clients using Java RMI and Spring

Feb 2007 – Sep 2010	<p>Freelance software developer for the project DEPATIS-Redesign to develop a new patent information system for the German Patent and Trademark Office</p> <ul style="list-style-type: none"> • Software engineer responsible for the Mid-Tier of the system Software using Java EE (JBoss) and JPA via Hibernate • Designing and implementing central services using Java RMI and Spring for the Eclipse RCP client and other clients (e.g. for data maintenance) • Implementing web services using JAX-WS • Database design using Entity Relationship Models • Implementing the project's central API and business logic • Designing a unified service infrastructure for DEPATIS and the online patent information system DepatisNet (depatisnet.dpma.de) • Software maintenance according to ITIL
Oct 2006 – Jan 2007	<p>Freelance software developer for EADS Astrium (today Airbus Defence & Space) to visualize structural product plans from the company's SAP system</p> <p>Designed the algorithm and developed a software called TreeJuggler (www.treejuggler.org) as part of the open source project Gravisto. To this day, this software is used to automatically generate drawings of complex hierarchies of machine parts within a few seconds. The drawings are generated as PDFs optimized for arbitrary paper formats (e.g. DIN A0 landscape).</p>
Oct 2004 – Sep 2006	<p>Technical Consultant with Trinem Consulting Ltd. in Germany (approximately 25 hours / week)</p> <ul style="list-style-type: none"> • Designing and Developing Trinem's software dependency analysis tool TriVision (Java, Swing) • Designing and Developing Trinem's web-based Online Support Systems (HTML, CSS, PHP, MySQL) • Consulting for British and American customers: end-user training, disaster recovery, tailored software development in the area of software configuration management and software-builds • Porting Trilogy (Trinem's software integration tool) from C++ to Java
May 2004 - Sep 2004	<p>Technical Consultant with Trinem Consulting Ltd. in Edinburgh</p> <p>Contracting work for the online division of a major bank in the UK (tailored software development using Java, PHP and Ant).</p>
Oct 2002 - Sep 2003	<p>Student representative for the Faculty of Computer Science and Mathematics at the University of Passau</p>
Jan 2001 - May 2002	<p>Student co-worker at Prof. Lengauer's Chair for Programming at the University of Passau</p> <p>Participated in a research project involving the functional programming</p>

	language Haskell and worked as a Tutor at the Informatics Summer Camp
Oct 2000 - Sep 2002	Trainer for self-defense at Passau University's sports center
Jul 1999 – Apr 2000	Basic military service (10 months) at Kümmersbruck Head of the computer workshop after basic training.

Skills

- Many years of experience as a Java developer
- Several years of JavaEE experience, especially Hibernate, Eclipselink, JPA, Spring, JBoss, EJB3, JAXB, PDF generation and processing using iText and FOP, PDF and PdfBox and image processing using Java Advanced ImageIO
- Several years of experience developing web applications using HTML, CSS, PHP, JavaScript, jQuery, Servlets, JSP and GWT
- Extensive experience in data visualization (e.g. Gravisto and VTK)
- Experience with web services (WSDL, JAX-WS and Axis2)
- Experience in database design using Entity Relationship Models
- Experience with database systems (Oracle and MySQL)
- Experience with statistics (e.g. regression analysis, clustering, data mining), mathematical modeling and machine learning

Language Skills

German (mother tongue), English (business fluent)

Further Interests

Judo, movies, English literature, Blogging (WhatSoftwareCanDo.org)

Munich, May 1, 2017