
Curriculum Vitae

Personal Data

NAME	Holger Erhard Arndt
DEGREE	Dipl.-Ing. Univ.
DAY OF BIRTH	23.11.1977
CITY OF BIRTH	Hannover, Germany
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Professional Skills

DATA ANALYSIS	machine learning, artificial neural networks (ANN), optimization methods, clustering algorithms, graphical models, Bayesian networks, ontologies, text mining, named entity recognition (NER), relation extraction (RE), document modelling, semantic web, search engine optimization (SEO), search engine marketing (SEM)
SOFTWARE	Windows, Linux (LAMP), server virtualization, web services (SOAP, Axis, Tomcat), data bases (SQL, MS Access), ORM (Hibernate), distributed computing (CORBA, MPI), text indexing (Lucene)
PROGRAMMING	Java/JSP, C/C++, Matlab, PHP, Perl, Basic, Pascal, \LaTeX
LANGUAGES	<i>business fluent:</i> German, English <i>basic knowledge:</i> French, Italian, Spanisch <i>fundamentals:</i> Russian, Chinese, Swedish

Open Source Software Projects

UJMP	Universal Java Matrix Package Initiator and leading developer http://www.ujmp.org
JDMP	Java Data Mining Package Initiator and leading developer http://www.jdmp.org

Work Experience

- SINCE JUL 2003 **Working as a freelancer**
focus on data mining and IT consulting
- SINCE SEP 2009 **autoaid GmbH, Berlin, Germany**
technical consultant and software engineer
development of a web-based diagnostic system for cars
- SINCE AUG 2008 **Refined Labs GmbH, Munich, Germany**
software engineer data analytics in online marketing
development of a system for automated bid management
- SEP 2007 – AUG 2008 **Siemens AG, Munich, Germany**
development of a web-based platform for text mining
named entity recognition, document modelling, Bayesian networks
- SEP 2006 – AUG 2007 **Siemens AG, Munich, Germany**
further development of a web-based platform for analysis and management
of bio-medical data
web services, axis, SOAP, Lucene, ontologies
- MAY 2006 – JUL 2006 **Hospimed International, Regensburg, Germany**
services rendered concerning server maintenance and databases
IT consulting, LAMP, server virtualization, SQL, Java, PHP, Perl
- SEP 2005 – AUG 2006 **Siemens AG, Munich, Germany**
development of a web-based platform for analysis and management of
bio-medical data
Java, Tomcat, HTML, XML, data bases, SQL, ORM, Hibernate
- MAY 2006 – JUL 2006 **ENETX eBusiness oHG, Regensburg, Germany**
services rendered concerning internet and databases
IT consulting, HTML, SQL, PHP
- JUL 2003 – AUG 2005 **Siemens AG, Munich, Germany**
development of algorithms and visualization tools for computational
neuroscience projects
Java, Matlab, C/C++, artificial neural networks, machine learning
- 1998 – 2002 **Study-related internships in Germany**
BMW Forschungs- und Innovationszentrum (Munich), Fraunhofer ESK
(Munich), ThyssenKrupp AG (Bochum), Starkstrom Gerätebau GmbH
(Regensburg)
- JUL 1997 – JUL 1998 **Bayerisches Rotes Kreuz, Regensburg, Germany**
civil service as an emergency medical technician

Education

- SEP 2004 **Max Planck Institut, Göttingen, Germany**
tutorial course on computational neuro-science
- OCT 1998 – JUN 2003 **Technical University of Munich, Germany**
studies of electrical engineering and information technology
degree "Dipl.-Ing. Univ."
- MAR 1998 – JUL 1998 **IHK Regensburg/Kelheim, Germany**
seminar "administrator for pc and network technology"
- SEP 1988 – JUN 1997 **Albrecht-Aldorfer-Gymnasium, Regensburg, Germany**
high school education with advanced courses in mathematics and physics

Patents and Inventions

- SEP 2006 **Patent DE102006041059A1**
Holger Arndt, Mathäus Dejori, Andreas Nägele
Computer-aided production method of data base from biomedical data, involves generating entity in database for objects contained in database and linkages provided in data base between entities
- JUN 2005 **Patent WO002006005669A3**
Holger Arndt, Bernd Schürmann, Martin Stetter
System for Extracting and/or Evaluating Information
- JAN 2004 **Disclosure of an invention 2004E01650DE**
Holger Arndt, Martin Stetter
Technische Innovation durch neuro-kognitive Modellierung komplexer dynamischer Systeme

Awards

- JUL 2008 **InnoCentive Award**
Challenge #6224829
Statistical Methods to Predict Clinical Response

Interviews

- MAR 2010 **Bayern 2 Zündfunk**
Data Mining in Sozialen Netzen

Publications

- JUN 2010 **Workshop on Machine Learning Open Source Software, 27th International Conference on Machine Learning (ICML), Haifa, Israel**
Holger Arndt
Universal Java Matrix Package
- MAY 2010 **Flexitools Workshop, International Conference for Software Engineering (ICSE), Capetown, South Africa**
Jonas Helming, Nitesh Narayan, Holger Arndt, Maximilian Koegel, Walid Maleej
From Informal Project Management Artifacts to Formal System Models
- JUL 2009 **33rd Annual IEEE International Computer Software and Applications Conference (COMPSAC)**
Holger Arndt, Markus Bundschuh, Andreas Nägele
Towards a Next-Generation Matrix Library for Java
- JUL 2009 **33rd Annual IEEE International Computer Software and Applications Conference (COMPSAC)**
Holger Arndt
The Java Data Mining Package – A Data Processing Library for Java (abstract and poster presentation)
- JUN 2008 **18th European Conference on Artificial Intelligence (ECAI)**
Andreas Nägele, Holger Arndt, Mathäus Dejori
Large-Scale Genetic Network Learning
- JUL 2006 **6th International Workshop on Smart Appliances and Wearable Computing (IWSAWC)**
Matthias Kranz, Stefan Freund, Paul Holleis, Albrecht Schmidt, Holger Arndt
Developing Gestural Input
- MAY 2003 **Technical University of Munich, Department for Communication Networks**
Holger Arndt
Implementation of Recurrent Self-Organizing Maps for Parallel Computing (diploma thesis)