

- Diplom-Ökonom (equiv. MBA)
- State-Approved Translator German/English
- Trainer, Motivator, Coach
- Software Developer
- System Administrator
- Software and System Architect



Contact Data

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Experience

As Lecturer: Training of computer scientists preparing them for state-approved exams in all core subjects of computer science: programming languages, databases, operating systems, networking, Internet, mobile computing including development of syllabi and creation and assessment of state-approved final examinations.

As Consultant: Leadership of teams, rhetoric, didactics, motivation, negotiation, recruitment, personnel evaluation, employee selection, software development for various platforms and mobile devices, software architecture of projects on centralised platforms (DOS/VSE) as well as decentralised architectures, implemented in Java and other, dynamic languages.

Qualification

Education:

- Diplom-Ökonom (equiv. MBA), specialised in commercial information technology
- state-approved translator German/English (Chamber of Industry and Commerce)

Languages:

German: native	
English: perfect	certified translator
Dutch: fluent	TELC B1 „very good“
Turkish: good	Institute University Ankara B1 „good“

Certificates and Trainings: 2016 – PostgreSQL Replikation Professional, Advanced
Optimizing and Performance Tuning course by Cybertec.at
2015 – Axelos PRINCE2® Practitioner Examination
2015 – “Python complete” course by GFU, Cologne
2015 – Java EE Master Class by Gedoplan/GFU
2014 – Axelos PRINCE2® Foundation Examination
2013 – Novell DC Tech Spec, SUSE 11 Tech Spec, SUSE CLA 11
2013 – LPIC-2 Linux Professional Institute Certification Level 2
2013 – LPIC-1 Linux Professional Institute Certification Level 1
2012 – Querenburg Institute – optimising of learning processes
2007 – The European Language Certificate – Dutch B1
2005 – ORACLE – object-relational development, Java, XML
2005 – District Council Düsseldorf – approval state examination
2004 – b.i.b. – method training leadership of groups
2003 – b.i.b. – method training mnemotechnics
2002 – Institute Dr. Müller – communication techniques
2001 – DQS-Impact – process oriented quality management
2000 – CERT-Consult – total quality management
1998 – Schumann AG – distinction for special accomplishment
1996 – Language Institute University Ankara – Turkish B1
1986 – FWS/VidG – dialectics in negotiation and discussion
1990 – HP – 958 System Manager HPUX/800
1994 – Chamber of Industry and Commerce – state-approved
translator German/English
1979 – Kraftwerk Union – welding and metal working
1978 – driving licence (A, BE, C1E, ML)

Topics and Systems

Operating Systems: Unix, Linux, Windows, Android

Programming Languages: **C/C++**, **Java EE**, **SQL + PL/SQL**, **Tool Command Language/Toolkit**, **Shell**, FORTRAN, COBOL, **XSLT2**, PHP, Python 3

Further Languages and **HTML**, **XHTML**, **HTML5**, jQuery, **XML**, **XSD**, Drupal,
Products: **PostgreSQL**, Oracle, Eclipse, **Android**, **System Administration of Linux** and Windows, **PostgreSQL Database Administration and Development**

Design: UML, UML2, Hard- and Software Architecture

Networking: ISO-OSI, TCP/IP, IPv6, VPN

Curriculum Vitae

Professional Experience

- since 10/2013 Freelance Software Architect and Trainer; development of applications for the real estate sector
Focus on training for Android app development, SQL, XML/XSLT, XML+Java, C++11, Linux Server administration, PostgreSQL administration and programming
Development of three Android apps including server components and PC applications for the real estate sector, to be marketed late 2015/early 2016
- 2001 – 9/2013 Lecturer Computer Science, b.i.b. International College in Bergisch Gladbach, Germany
Database systems, operating systems, networking with TCP/IP, Internet technology, software engineering, programming, development of native Android Apps
- 2001 Project Manager: Coordination of vocational IT training, Bayer AG in Leverkusen, Germany
Coordination and supervision of the cooperation with a private university, supervision of student apprentices in the IT department
- 1999 – 2001 Lecturer Computer Science, b.i.b. International College in Bergisch Gladbach, Germany, details see above
- 1997 – 1999 IT consultant, Schumann AG in Köln
IT consulting in various projects, among others at the head office of a leading bank in Frankfurt implementing the Capital Adequacy Directive in C++
- 1987 – 1997 Lecturer Computer Science, b.i.b. International College in Bergisch Gladbach, Germany, details see above
- 1986 – 1987 Software Developer, ALAC Software GmbH in Cologne
Development of software using Professional Pascal for IBM Germany
- 1986 – 1987 System Programmer, Johnson & Johnson GmbH, Düsseldorf, Germany
Junior System Programmer for IBM DOS/VSE, CICS, VM/CMS

- 1984 – 1985 Lecturer, bfw Vocational Training Center, Essen, Germany
8 months 1 full day per week lecturer for planning techniques and information technology in a vocational training course in business and economics for technicians
- 1979 Salesman, „Quelle“ department store in Duisburg, Germany
6 months full-time salesman between high school and beginning of studies at the university

Education/Qualification

- 1994 Certification as a state-approved translator German/English at the Chamber of Industry and Commerce in Düsseldorf, grade “good”
- 1980 – 1985 Studies of Commercial Information Technology, University Duisburg, graduation as Diplom-Ökonom (equivalent MBA), grade “good”
- 1979 – 1980 Studies of Electrical Engineering, University Dortmund
- 1970 – 1979 Grammar School Broich in Mülheim an der Ruhr, A Levels
advanced courses in mathematics and chemistry
- 1966 – 1970 Elementary School in Mülheim an der Ruhr

HOLGER JAKOBS, BERGISCH GLADBACH

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Overview over Large Projects

teaching: many years of experience in vocational training of state-approved computer scientists in all major subjects of the IT core fields:

- operating systems (Windows, Unix, Linux, Mac) and networks (LAN, WLAN, TCP/IP) from network planning to socket programming, IT security (access management, encryption, intrusion detection, backup technology)
- database systems (PostgreSQL, Oracle, SQLite)
- various programming languages (Pascal, Fortran, C, C++, Java, dynamic languages)
- web development with HTML5, CSS3, JavaScript, Ajax, PHP, JSP
- mobile computing, mobile web pages and especially development of native Android apps
- development tools, Eclipse, Mercurial, ADT
- XML, XSLT, XML Schema

Besides teaching I also design courses and curricula. I formulate the state-approved examinations and mark them.

development putting the capital requirements directive into practise for a leading German bank

documentation: creation of an operations manual in English for an international logistics company

development: design and implementation of various services on Sun Solaris and Macintosh Server for the management of orders in the advertising industry, picture processing, database export and import

development: design and implementation of apps for real-estate

Kinds of Projects I Would Be Interested In

- Java** All kinds of Java-based software, especially Java 8 including database access (Java Persistence API, JPA), are interesting projects to me.
- RDBMS** Since I regard good creation and maintenance of relational databases as crucial for performance, according to my opinion just relying on the ORM (object-relational mapper) to create data structures often yields unsatisfactory results. I would like to support ERM design and the creation of the database structures.
- Migration from commercial RDBMS to PostgreSQL has become quite common. I would like to work on migration projects and give advice on how to make use of the great features of PostgreSQL.
- Web** Many Web sites will have to be updated to the current HTML5 standard and thus be re-launched. The new approach is “mobile first” and has to use responsive Web design in order to reach as many customers as possible. Interesting evolving technologies are Angular and Meteor.
- Mobile** Apps have been in the focus of many projects. The Web has to be re-done due to HTML5, and mobile apps will have to be added to the IT portfolio of corporations. Whether the app will be native Android or based on web technology, I am ready to put this into practise.
- Many mobile Apps need to be embedded into existing IT infrastructures, taking care of security concerns.
- Teaching/Training** Since I have been a teacher and trainer for decades, I would be happy to teach any topic I know something about. Whether it is an IT related topic, rhetorics, writing techniques, English or German language – just ask.
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List of Projects

- 2017 Development of a PC application for reading RFID tags and associate them with apartment numbers, used in an electronic access control system
- 2014 – current Development of Android apps for a consulting company and for the real-estate sector including a server component
- Design of database structures and joint development of a Java Swing application plus an Android app for managing annual condominium owners' assemblies by property management companies.
- Giving trainings for industrial customers, main topics are Android, Java, Linux servers, IP networking, XML, C++, database development with SQL and PostgreSQL administration
- 2001 – 2013 Teaching at a state-approved vocation training college including creation of curricula and examining students
- 2011 – 2012 Management of a student project designing and implementing a client for an international hotel reservation company to be deployed as a web app
- Tools: Google Web Toolkit, Java, Eclipse
- 2011 – 2012 Management of a student project evaluating and comparing MonoDroid and MonoTouch for the platform independent development of native apps
- Tools: MonoDroid, Java, Eclipse, MonoTouch, Objective-C, X-Code
- 2011 – 2012 Management of a student project designing and implementing an app for restaurant waiters on mobile devices
- Tools: m-project, JavaScript, Eclipse, MySQL
- 2010 – 2012 Design, planning and implementation of a fully automated video surveillance system for a large apartment block integrating IP and video cameras with history processing and movement detection
- Tools: IP cameras, video grabbing hardware, motion tool, cron, Tool Command Language

List of Projects

- 2010 – 2012 IT consulting, re-design and implementation of a system for order processing and archiving running on a Macintosh server replacing a commercial system on Solaris for a large communication and media agency in Cologne
Tools: ImageMagick, Tool Command Language, SQLite, Solaris, MacOS
- 2009 – 2011 Design of a relational database system for a customer relationship management system for a home owners' association and merging data from several data sources. Consulting regarding the implementation of the front end application
Tools: PostgreSQL, Java, Swing, Hibernate
- 2008 – 2009 Design and implementation of a middleware and connecting apps for various types of mobile devices (traditional mobile phones, Samsung feature phones, iPhones and Android handsets) for displaying student timetables, QR code generation
Tools: Samsung development set, XHTML, XML processing, Tool Command Language, regular expressions, jQuery, W3 Widgets
- 2007 Translation and proofreading of curricula of an international vocational training college regarding the international accreditation of credit points for a bachelor's degree course
Tools: word processor
- 2006 – 2008 IT consulting, design and implementation of a system for picture processing and archiving for a large communication and media agency in Cologne
Tools: Sun Solaris with CDE, Exceed X Server, Helios server products, ASED, Tool Command Language
- 2002 – 2007 Configuration of a file, mail and application server for a theater in Cologne, Windows NT domain with Samba, system management, administration and remote monitoring
Tools: SuSE Linux, system and log tools

List of Projects

- 2002 – 2004 IT consulting, design and implementation of a system for order processing for a large communication and media agency in Cologne.
Tools: Sun Solaris with CDE, Exceed X Server, Helios server products, ASED, Tool Command Language, ftp, cron
- 2002 Server configuration including backup and firewall for a real estate agency in Cologne, Germany
Tools: Linux, ip tables, rsync, samba, Windows XP
- 2002 – 2003 Creation of a library accessing various information sources and implementation of a number of tools for student management, including forms processing for an international vocational training college
Tools: Tool Command Language, Lotus Notes, regular expressions
- 2001 Design and implementation of an intern application management system for the IT department of a large industry company
Tools: Microsoft Access, Tool Command Language, Lotus Notes Mail
- 1997 – 1998 Putting the capital requirements directive into practise for a leading German bank, development on Sun Solaris with C++ in order to daily assess the global pool of shares, bonds and derivatives. Parallelisation of the assessment process with self-written paralleliser and result merger in C.
Tools: Sun Workshop (TeamWare version control, C/C++ compiler), emacs, Microsoft Office, Samba