

- 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: 2019 – “Microsoft Azure” course by GFU, Cologne
2016 – PostgreSQL Replication 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 – 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**,
Products: **PostgreSQL Database Administration and Development**, Oracle, MS SQL Server, Eclipse, Android, **System Administration of Linux** and Windows,

Design: UML2, Hard- and Software Architecture

Networking: ISO-OSI, TCP/IP, IPv4, IPv6, VPN

Curriculum Vitae

Professional Experience

- since 10/2013 Freelance Software Architect and Trainer; development of applications for the real estate sector; projects in the trade industry
Focus on training for PostgreSQL administration, programming, design and optimisation of databases and SQL queries, Android app development, Tcl/Tk Scripting, XML/XSLT, XML+Java, C++, Linux Server administration,
Development of three Android apps including server components and PC applications for the real estate sector
Migration project for a large retail company from MS SQL Server to PostgreSQL with a huge number of installations (mid 2017 – mid of 2019)
- 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, Java Script, 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 Adequacy Directive into practise for a leading German bank, implementation of security valuation in C++

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,

development: design and implementation of apps for real-estate

Kinds of Projects I Would Be Interested In

Scripting All kinds of systems and new developments based on the Tool Command Language and the related Toolkit for developing platform-independent graphical user interfaces, data conversion, data migration and data maintenance tasks are my top priority.

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. In this field I prefer project management and design of architectures rather than coding.

Mobile Apps have been in the focus of many projects. The Web has almost been re-done due to HTML5 and the advances of newer CSS versions, and mobile apps have been added to the IT portfolio of almost all corporations.

Many mobile Apps need to be embedded into existing IT infrastructures, taking care of security concerns. Here, my expertise can help creating the necessary structures.

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.

List of Projects

mid 2017 – mid 2019 Project management and consulting for a large retail company replacing MS SQL Server with PostgreSQL systems in a huge number of installations. The work included creating operations and security concepts, development of PowerShell scripts for synchronisation of Active Directory groups and users to PostgreSQL roles, testing the migration process, backup and upgrade procedures, support in migrating complex queries from T-SQL to ISO/PG-SQL, optimising queries and documentation thereof and training of staff.

Tools: PowerShell, MS SQL, PostgreSQL, Tool Command Language + Toolkit, Fossil Source Control Management, Jira

2017 Development of a PC application for reading RFID tags and associate them with apartment numbers, used in an electronic access control system

since 2014 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

List of Projects

- 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
- 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

List of Projects

- 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
- 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

List of Projects

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