

Andreas Reuleaux

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German citizenship

PhD student in Computer Science at the University of Kent in Canterbury
senior software engineer
Diploma degree in Computer Science from the Technical University of Berlin

Work Experience

- since september 2013 within my research studies at the University of Kent in Canterbury (cf. below): occasional *teaching* as **assistant lecturer** in Computer Science.
- february 2010 - march 2011 service company **Normasys**, Paris
- february - october 2010: consultant for **Axa-Reim**, La Défense: **Modeling and development of an Oracle database system** (with Sybase PowerDesigner and Oracle-Toad) for the integration of data from the accounting / real estate domain (coming from a Cologne based SAP system). Integrity checks on the data. Development of a Python script for the loading of translations as XML in Cognos Framework Manager. **Coordinator of a german-french team.**
 - since november 2010: **internal work** for Normasys:
 - revision of their accounting system based on the ETL Talend and Eclipse-BIRT for reporting.
 - contributions to a project called *SOM: situation management* based on a *Self Organizing Map*, development in C#/.Net.
- october 2007 - march 2009 **Ineo ES** (GDF-SUEZ group) in Vélizy-Villacoublay (near Paris), two projets:
- **Development** of a software for tracing Diesel particle filters produced by **Saint-Gobain** (in Germany). Software created in partnership with Apriso (Paris/Cracow), based on IP21/Aspentech and Flexnet/Apriso. **Contact person** for the German customer.
 - Port of a tool called *Generator.21* for importing/exporting data in IP21, from VB6 to C#.

- april 2003 - september 2007 IT service, **self-employed**, various customers and projects:
- instructor for **beehive's Zope trainings** and maintenance of their training material as well as various **Python/Zope programming tasks**, notably SOAP web services for Stadtparkasse Köln.
 - **programmer and consultant** for **SNTL Publishing**, Berlin (Zope based publishing system ZMS).
 - **IT service** for **Kienzle & Gmeiner** and **Dogon**, two galleries in Berlin: general advice, installation, support and development for Apple Macintosh. Development of a database system (based on Zope 3) for them.
- august 2001 - march 2003 **software developer** at **dasburo.de** in Berlin, various projects for Berliner Bankgesellschaft and Goethe-Institut:
- Bankgesellschaft:
 - maintenance of a Lotus Notes application and later its migration to the content management system NPS5
 - contributions to the development of the internal and external web appearance of Bankgesellschaft by means of NPS5
 - conceptual work and architecture in a so called *Oracle migration project* aiming at the unification of the data sources of Bankgesellschaft by means of Oracle
 - Goethe-Institut: development of a prototype of a web based learning system with Perl
- may 2000 - july 2001 **software developer** for **Klopotek & Partner** in Berlin (software for publishing houses), e-commerce division: development of a procedure to provide as XML the complex relational data structures of the so called book trunk of their software by means of Java and Oracle techniques.
- june 1999 - april 2000 **system analyst** for **gedas** in Berlin, public sector / office automation line of business, two projects:
- development of a so called *multimedia press review system* for the German Chancellery (administration of the head of government) based on the document management system *Documentum*, responsible for its web interface (Documentum, HTML, JavaScript)
 - consultant for Deutsche Post (Switzerland): development/revision of their package tracking system with Java and Oracle
- march 1999 - may 1999 **junior consultant** for **CSC Ploenzke** in Hamburg, banking branch: contribution to the reorganization of Deutsche Handelsbank, Berlin.
- november 1995 - january 1999 **student employee** at the UNIX-Pool of the mathematics institute of TU Berlin: member of the UNIX system administration team and general programming advice for students.
- october 1994 - october 1995 **tutor** for the Pascal and Fortran programming classes of the project group for practical mathematics, PPM at TU Berlin.
- january 1993 - april 1993 **student employee** at the Fraunhofer-Institut (for production facilities and construction design, IPK) in Berlin: C and Motif programming.

Education

- since september 2013 PhD student in Computer Science at the University of Kent in Canterbury, under the supervision of Simon Thompson, focussing in my research on **Functional Programming with Dependent Types**, and **Refactoring**, and as such member of the *Programming Languages and Systems Group (PLAS)*

september 1998

diploma degree in computer science ("Diplom-Informatiker") from the Technical University of Berlin (overall score "good"), diploma thesis in the field of compilers for Functional Programming Languages, supervisor: Christian Maeder.

prediploma degree in mathematics ("Vordiplom", overall score "good"), elementary courses in business and economics

july 1987

Abitur (university entrance qualification, overall score "good")

Techniques / Interests

- My main research interests are in pure functional programming languages and **dependent types**: **Haskell**, **Idris**. Certified programming and theorem proving in general, taking inspirations from Agda and Coq i. e., as well as **refactoring**. Programming language fundamentals, type theory, type systems in general, parsing.
- Having worked with **Python** a lot, and in particular with **Pyramid** for web applications, I have switched to **Haskell** for *web development* as well: **Servant**, **Wreq**, JavaScript/React.js/CSS basics
- other languages/frameworks formerly used: C/C++, Java, C#.Net, and Zope 2/Zope 3/Plone
- XML/XSLT/XSL-FO/RELAX NG and DocBook, Latex&friends
- mastery of LINUX/UNIX (three years as a system administrator, Linux since 1993, Debian since 1997)
- configuration management: Propellor, Pyinfra, Ansible
- version control: Git
- build systems: Shake, DJB Redo
- data base systems: MySQL and MongoDB, NoSQL in general, formerly Oracle
- general software engineering skills
- network protocols, standards, security
- basic statistics: R, Python-Pandas
- Open Source techniques generally

Civil Service

october 1987 - may 1989

civil service as a paramedic for Malteser Hilfsdienst e. V. in Munich

Languages

- **German**
- excellent written and spoken **English** (spent a highschool year in the U.S., living in England since September 2013)
- fluent in **French** (lived in France for six years)

Miscellaneous

Swimming and Dance, Cuisine, Food