

Andreas Reuleaux

(mailbox:)

30 St Dunstan's Street
Canterbury, Kent CT2 8HG
UNITED KINGDOM

rx@a-rx.info

rx@a-rx.me

https://a-rx.info



senior software engineer

Diplom-Informatiker (diploma degree in Computer Science), Technical University of Berlin

Work Experience

- September 2013 - June 2019 (within my research studies at Kent University, cf. below): **assistant lecturer** in Computer Science.
- February 2010 - March 2011 **Normasys**, Paris
- February - October 2010: **consultant** for **AXA-REIM** (Real Estate Investment Managers), La Défense: **Modelling 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 into Cognos Framework Manager. **Coordinator of a French-German team.**
 - and (November 2010 - March 2011): **internal work** for Normasys.
- October 2007 - March 2009 **Ineo ES** (GDF-SUEZ group) in Vélizy-Villacoublay (near Paris), two projects:
- **Development** of a software for tracing Diesel particle filters produced by **Saint-Gobain** (in Germany). Software created in partnership with Apriso, based on IP21/Aspentech and Flexnet/ Apriso, in Coburg/Bavaria, Paris, and Cracow. **Contact person** for our German customer / **coordinator of a French-German team.**
 - (and internal work for Ineo:) 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 reorganisation 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

- September 2013 - June 2019 PhD student in Computer Science, in Canterbury, Kent (*Programming Languages and Systems Group, PLAS*). Work on *Refactoring dependently typed programs* under the supervision of Simon Thompson (research focus on **Functional Programming Languages, Dependent Types, and Refactoring**), thesis not submitted though.
- 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.
elementary courses in business and economics
- July 1992 **prediploma degree in mathematics**, TU Berlin ("Vordiplom", overall score "good"),

university entrance qualification ("Abitur", overall score "good") in Garching, Bavaria

Techniques / Interests

various techniques, tools and languages:

- within my research (in programming languages), and for most of my personal needs: **Haskell**, and **Scheme** (Gauche, Guile, Racket),
- within my research focus as well: **Idris (Agda, and Coq)**, type systems (dependent types), and theorem proving in general,
- **Python** for many years - web programming at the time - (before returning to academia and functional languages i.e.), and again more recently - for data analysis, statistics, and AI - exploring its so called scientific stack: NumPy, Pandas, Matplotlib, SciPy, TensorFlow, Scikit-Learn, and PyTables. Python used through **Hy** as well (a Lisp).
- some interest in data analysis and statistics in general,
- LINUX/UNIX system administration, and configuration management (Haskell-Turtle, -Propellor, and Gauche-Scheme, among other tools, on Debian and Guix in particular, having worked as a student system administrator already),
- database systems (No-SQL, as well as relational),
- version control (Git) and build systems (Haskell-Shake, DJB-Redo, Make),
- general software engineering skills (testing),
- network protocols, standards, security.

Civil Service

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

Languages

trilingual: **German**, **English**, and **French** (a high school year in the US, six years in Paris, and in the UK since September 2013)

Miscellaneous

- **Swimming, Dance**
- Cuisine, Food