

# At a glance – skills & expertise

(*project history & work experience: next page, personal & education info: last page*)

## Familiar languages, technologies, stacks:

- **Go:** from 2011 onwards, first increasingly then *most frequently*
  - initially only for open-source & personal projects, since 2017 also for clients
- **C#:** *regularly* from 2002-2014, *increasingly* again since 2019
  - focus from 2006-2014: backend SharePoint, then-popular & widespread ASP.NET enterprise API-and-web-app-development-and-deployment platform
  - focus since 2019: .NET Core
- *Sporadically* in recent years: TypeScript / Node.js, Haskell, Lua, Python
- *Recurringly* as-needed: common DSLs such as HTML, CSS, SQL dialects
- *Also at one time or another* between 1998 - 2018:
  - Basic, Pascal, VisualBasic, ASP 3.0, ASP.NET, PHP, Java, Common Lisp, Prolog, XML-relateds (XSLT, XPath, XML Schema / XSD etc), F#, WebGL, OpenGL, GLSL, vanilla JS, various short-lived now-deceased JS frameworks / libs / langs (Coffeescript, Underscore.js etc), NoSQLs (Mongo, CouchDB)

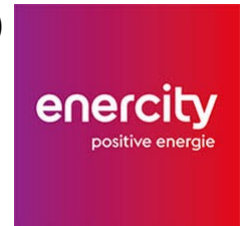
## Generalist / soft skills:

- Paradigms: purely-functional / object-oriented / service-oriented / domain-driven
- Solid intuitional grasp of the *principal foundations / essentials* of i.a.
  - TCP & UDP, HTTP & "REST", IPC & RPC, GraphQL, RDBMS & NoSQL, GPGPU, concurrency, parallelism, low-level performance considerations, SOA and microservice architectures, current-gen SPA frontend stacks (i.a. React / Vue, Svelte), event sourcing, message queuing, map-reduce, current-gen cloud / ops tooling (i.a. Docker, Kubernetes, various CI/CD pipelines)
- Experience-(in)formed ingrained habits for delivering maintainable, long-lived, correctness-tested, performant, well-documented (all within scope) code-bases
- Swift adoption of the client's currently preferred project organisation, documentation, communication & collaboration methodologies & standards (i.a. the locally cultivated flavour of 'agile', or other), as well of client- / project-specific APIs, libraries, architectures, tool chains, coding standards

# Projects & work history since 2000

## 2020

- *[Back-end dev & coaching]* **enercity / lynq.tech (Hannover, DE)**  
— cloud platform with Go on AWS:
  - multiple microservices: from-scratch, maintenance, revamps
  - highly industry-specific & accounting-related domain logic
  - REST/HTTP/JSON cross-service communication
  - numerous third-party & external integrations incl. SAP, SEPA, BuBa IBAN etc.
- Additional tech: Kafka, OpenTracing / Jaeger, Prometheus, Jenkins, Swagger



## 2019

- *[Back-end dev & coaching, on-site]* **BeckmanCoulter (Munich, DE)** — .NET Core microservices & high-performance RPC
  - Revamp of "monolithic" WCF-heavy code-base to a cloud-ready containers-based C# / .NET Core microservices architecture
  - Additional tech: gRPC, RabbitMQ, Redis, Docker, OpenTracing, Prometheus
  - Development of auxiliary migration & ongoing-performance-analysis tooling




## 2017 - 2018:

- *[Back-end dev & coaching, on-site 10 months]* **Metro Systems (Düsseldorf, DE)** — in-house Cloud with Go:
  - multiple dozens of microservices, both intra-departmental and cross-enterprise
  - some over REST/HTTP/JSON, some over RPC (some gRPC, others Cap'nProto), some just background service polling workers and the likes
  - all with generated docs & Swagger-like rudimentary internal "interactive-testing UIs", OpenTracing across chains of cross-service/-container calls, metrics



gathered for Prometheus (& Grafana GUIs), ELK-compatible structured logging, CI/CD into Docker containers to run statelessly in Kubernetes clusters

- contact for reference from client available upon request

- *[Back-end / API interop middleware]* **Simplesurance (Berlin, DE)**  — custom bespoke Go library providing a higher-level API for simplified RabbitMQ message-queuing formulated after the client's use-cases, wrapping lower-level AMQP details under the hood

## 2008 - 2018 self-initiated open-source projects

- Full list of works at: [github.com/metaleap?tab=repositories&type=source](https://github.com/metaleap?tab=repositories&type=source)
  - furthermore all repos at [github.com/go-leap](https://github.com/go-leap)
- projects *overwhelmingly* in **Go**, some also in TypeScript / Node.js, Haskell, Lisp
  - quite a few of them found numerous users, others didn't, but all served requirements perceived as very real at the time








## 2011 – 2015: [SharePoint-Tools.net](http://SharePoint-Tools.net) / [roxority.com](http://roxority.com)









- my own indie software business focused on SharePoint backend extensions
  - after mid-2015 transfer to new owner-maintainer, *as of 2017 the above original domains are no longer live* — but still archived at: [roxority.squarespace.com](http://roxority.squarespace.com)
- C# full-stack development (plus documentation, bilingual localisation, marketing, distribution and tech support; furthermore in-depth on-topic blogging, power-user community / forum, and bilingual website design / content / maintenance) for my 5 different SharePoint Server component software products, each fully supporting the then-major 3 server versions 2007, 2010, 2013:
  1. **ExportZen:** enabling automatable, workflow-capable, schedulable, reusable deployable, multiformat-capable List / Library / Calendar exports
  2. **FilterZen:** then the most-powerful & -tweakable search&filter component
  3. **UploadZen:** user-friendly, plugin-agnostic-yet-cross-browser (back then real challenges in SharePoint & all web apps) scalable bulk-uploads

4. **PeopleZen:** richly customisable, reusably deployable User Profile listings, views, templates and WebParts (ie. widgets)
  5. **PrintZen:** print-friendly document library, calendar and list views
- all 5 products could be easily self-translated by the power user / admin
  - all 5 products featured a user-friendly „config studio“ GUI (no .json or .cfg)
  - technologies: i.a. C# .NET, SharePoint 2007 / 2010 / 2013, ASP.NET, HTML/CSS/jQuery, XML, SQL, CAML; custom REST to the SharePoint Server



## 2010:

- *[Full-stack]* **Visiting Angels (Bellingham, US)** — C#  development of a server-side, remote-invokable bulk printing solution (incl. duplex/stapling/etc. capabilities) for SharePoint Server
- *[Full-stack]* **PortalSystems Consulting (Potsdam, DE)** — C#  development of a more versatile and more richly customizable, fully compatible drop-in replacement-alternative implementation of SharePoint's built-in "Lookup field" (field linking items in one data source to other items in the same or another) as a readily installable SharePoint Server component
- *[Front-end]* — faithfully-true-to-detail, robustly integrating (with  built-in GUIs and diverse kinds of client devices etc. as per Enterprise requirements) corporate-design adaptation as a custom turn-key SharePoint Theme, in 3 projects for:
  - **VEMAG** (Verden, DE) 
  - **Servier** (Munich, DE) 
  - **DGQ German Quality Association** (Frankfurt, DE)
- *[Full-stack]* **Exerti (Itegem, BE)** — custom SharePoint *Business Data Catalog* WebPart development in C# 
- *[Full-stack]* **SentiTrade (Berlin, DE)** — C# development of a "seamless SharePoint integration" (incl. user-facing front-end components) for "GreenBox", *SentiTrade's* largely API-only linguistics- / ML-driven Sentiment Analysis suite 



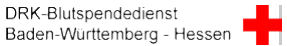

## 2009:

- *[Consulting / full-stack]* **DVZ Mecklenburg (Schwerin, DE)** —  SharePoint migration consulting: on-site workshop and instructive bespoke C# development to automate parts of the migration effort
- *[Front-end]* — faithfully-true-to-detail, robustly integrating (with built-in GUIs and diverse kinds of client devices etc. as per Enterprise requirements) corporate-design adaptation as a custom turn-key SharePoint Theme in 2 projects for:
  - **K.D. Feddersen** (Hamburg, DE) 
  - **Bauer Systems** (Hamburg, DE) 
- *[Full-stack / coaching]* **K.D. Feddersen (Hamburg, DE)** — on-site  workshop & coaching on SharePoint server-side development with C# & ASP.NET
- *[Full-stack]* **Swisscom IT Services (Zurich, CH)** — C#  development of bespoke custom SharePoint Server components (WebParts, MS BDC import/export, custom field type)
- *[Full-stack / coaching]* **PortalSystems Consulting (Potsdam, DE)** — 
  - C# development of a bespoke, PSC-specific time-tracking and project-management solution in SharePoint Server with Dynamics CRM integration
  - On-site intensive crash-courses for fresh entry-level hires: SharePoint development practices, principles & techniques for C# & ASP.NET programmers
  - On-site full-day workshop: employing XPath & XSLT for manifold purposes and diverse biz-data use-cases: in SharePoint specifically, and in .NET code generally








## 2008:





- *[Front-end]* **Sysmex (Norderstedt, DE)** — faithfully-true-to-detail,  robustly integrating (as per Enterprise requirements) corporate-design adaptation as a custom turn-key SharePoint Theme
- *[Coaching]* **Salis IT Services (Cairo, EG)** — devised & conducted a  week-long intensive on-site course with hands-on coaching for Salis' ASP.NET and C# developers on all facets of SharePoint development: programming,

installing, deploying, trouble-shooting custom server-side back-end code, the various built-in APIs, techniques for robust front-end, etc.


- *[Refactoring / Consulting]* **Deutsche Post / DHL IT Services (Fulda, DE)** — "Collaboration Consolidation Programme and Business Change Management": on-site consulting and collaboration on architecture, technology choices, project management of varying concurrent cross-enterprise migration projects of previously isolated, partially redundant, verging-on-monolithic „silo“ solutions towards their emerging central enterprise-wide SharePoint 2007-based collaboration platform 
- *[Back-end]* **Homag (Schopfloch, DE)** — C# development of a richly configurable, fully parallelised, highly customer-specific bulk data import and transformation tool-chain in the context of a sweeping longer-term legacy-DMS-to-SharePoint migration effort 
- *[Coaching / full-stack]* **Red Cross (Baden-Baden, DE)** — on-site consulting, prototyping, C# development and server customizations to help realise a nationwide corporate collaboration (SharePoint) intranet environment 
- *[Coaching]* **Göde Science Trust (Aschaffenburg, DE)** — on-site SharePoint coaching & workshops: C# development, server customizations & migration 

## 2007:


- *[Coaching]* **Göde Science Trust (Aschaffenburg, DE)** — on-site workshop: SharePoint intranet migration SPS 2003 to WSS 2007 
- *[Front-end]* — faithfully-true-to-detail, robustly integrating (with built-in GUIs and diverse kinds of client devices etc. as per Enterprise requirements) corporate-design adaptation as a custom turn-key SharePoint Theme in 5 projects for:
  - **Philips Lighting** (Aachen, DE) 
  - **Coler** (Münster, DE) 
  - **Big Dutchman** (Vechta, DE) 
  - **BP** (Lingen, DE) 
  - **Sony Europe** (Berlin, DE) 
- *[Back-end / API interop]* **d.velop AG (Gescher, DE)** — bespoke development efforts for d.velop's *SharePoint Platform Services* initiative: 

- MVP-prototyping and then C# co-development of the first iteration of their "d.velop SharePoint ECM Services" Document Management suite of products,
- seamlessly integrating d.velop's widely deployed "d.3" document lifecycle and archival tech stack with SharePoint core technologies such as Enterprise Search, distributed Document Libraries, Records Center and WebParts
- [Coaching / Front-end] **Solarlux (Osnabrück, DE)** — on-site  workshop: SharePoint design customization practices & techniques, plus live-demo-coding of a faithfully-true-to-detail, robustly integrating (as per the usual Enterprise needs) corporate-design adaptation as a custom turn-key SharePoint Theme
- [Front-end] **Axel Springer (Berlin, DE)** — on-site web  development during the final spurt of their extensive "XML-based, standards-driven Web 2.0" (2007 lingo) relaunch of mass portal *Bild.de*
- [Full-stack] **dSPACE (Paderborn, DE)** — 
  - C# development of an HR Candidate Management System installable / embeddable within any SharePoint Server, featuring seamless interop with out-of-box / 3rd-party WebParts and the MS *Business Data Catalog*
  - faithfully-true-to-detail, robustly integrating (with built-in GUIs and diverse kinds of client devices etc) corporate-design adaptation as a custom turn-key SharePoint Theme
- [Coaching] **BKK Gildemeister-Seidensticker (Bielefeld, DE)**  — on-site workshop on SharePoint Server & Enterprise Search: installation, administration, customization


## 2006:

- [Full-stack] **ArcelorMittal (Eisenhüttenstadt, DE)** — architecture and C# + SQL development (plus documentation, deployment etc)  of a tailor-made ASP.NET-based *Media & Loans Management System* for Arcelor's extensive in-house technical & patents library
- [Full-stack] **Masters Wines (New York City, US)** — ASP.NET-based real-time business-intelligence dashboards featuring (custom-coded, handcrafted & very slightly for 2006) charts, KPIs, reporting and flexibly composable data aggregators 



- *[Windows / ASP.NET]* **Shareware: Quotator ([tinyurl.com/quotator-net](http://tinyurl.com/quotator-net))** —  design and C# development (plus end-user documentation, web site, localisation, marketing, distribution and tech support) of a fairly popular Windows app for 5 major Windows-based Email apps to automatically embed in every new message one randomly chosen dynamic signature from a custom collection of quotes or other slogans

## 2005:

- *[Windows / ASP.NET]* **Shareware: SudokuPro ([tinyurl.com/sudoku-pro](http://tinyurl.com/sudoku-pro))** 数 — design and C# development (plus documentation, web site, localisation, marketing, distribution and tech support) of a fairly popular Windows app for playing (programmatically generated or manually entered eg. from newspapers) Sudoku puzzles, featuring solving assistance, instant solving, printing of one or multiple generated Sudoku puzzles (eg. for travel etc), including pen-ready mobile version (.NET Micro Framework) for the „MS Pocket PC“ OS (aka. Windows CE)
- *[Full-stack]* **West Midlands CCM (Coventry, UK)** — on-site .NET  consulting und co-development of an ASP.NET-based „intelligent supply chain visibility management portal solution“ (2005 lingo, Midlands University project) for the „West Midlands Collaborative Commerce Marketplace“ (Chamber of Commerce project) member companies

## 2004:

- *[Full-stack]* **Insurance&more (Berlin, DE)** — architecture & MVP prototype development of an ASP.NET-based, pan-European insurance industry web-community-hub (startup, didn't last)



## 2003:


- *[Full-stack]* **Seminar for Advanced English Studies (Oxford, UK)** — web site design & development [saes.info](http://saes.info) (my version was live until ~ early 2011) plus development of custom, user-friendly Content






Management System with basic CRM capabilities, tailored to the needs of SAES, in ASP.NET with C#

## 2002:

- *[API interop]* **Adhaero Technologies (Hemel Hempstead, UK)** —  tech / dev coaching (VS 6; LDAP + MS Office interop via COM / ActiveX) & software localisation for the German market entry of up-start *Adhaero Doc* (later acquired by *Avoco Secure*), developer of "peer-to-peer Enterprise Document Rights Management" (ie. distributed doc-level ACLs)

## 2000 - 2001:

- *[Full-stack]* **Assa Abloy (Potsdam, DE)** — design, architecture,  development (ASP 3.0 / VBScript / SQL) of a web-based B2B eCommerce system (hand-crafted manufacturer-to-dealer web-shop) for their BAB-IKON security-appliances

# Personal & education

- **1982:** born in Potsdam near Berlin
- **2001:** Abitur (German A-levels) at *Evangelisches Gymnasium Hermannswerder*, Potsdam (majoring in Informatics, English, German, Politics)
- **2001 - 2002:** obligatory Civil Service at retirement home *Potsdamer Bürgerstift*
- **2002 - 2005:** B.Sc. *Computing & Intelligent Systems* at Oxford Brookes University
  - final-year thesis on self-chosen topic: *Persient – An Object Persistence Layer for the .NET Framework* (~80 pages)
    - 2nd-place winner of the (annual-back-then) regional *BOCC Systems Development Award*
      - (see 2005 entries near the bottom of <http://tinyurl.com/phil-bocc>)
- **2005 - 2006:** post-graduate study of *Answer Set Programming* (SAT Solvers etc.) at Potsdam University
- Hobbies / passing interests: reading of any&everything, drawing, casual cycling