

Alex Düsel, IT Consultant

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Alex has a wide spectrum of programming skills, ranging from (big-) data queries, data transformations, backend development up through the whole development stack including UX/UI design.

He has worked on large-scale XML publishing projects for the automotive, mechanical engineering and aviation industry. Over the last years, he has been more involved in automation projects, paperless processes, and form-based workflows, dealing with healthcare data and insurance papers.

He is a good communicator and enjoys presenting to the business and to the team. Alex is experienced in coordinating project activities across continents.

Technical Skills

Software Development

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|---|---|---|
| Python, Django, NodeJS | Javascript, jQuery, CKEditor, VueJS3, Typescript | SQL |
| XML, XSLT, XQuery, XPath, XSpec, Schematron, XProc Docbook, DITA, PI-MOD Java, J2ME OOA / OOD Agile / SCRUM | HTML5, XHTML, XSL-FO, CSS S1000D SGML, CALS Web Services REST, SOAP UML, OOA / OOD Declarative and functional programming | JSON, YAML, ANT DTD, XSD, RelaxNG J2EE / OSGi Konzepte Java / Swing, BPMN GIT, Eclipse, oXygen, Jira, Confluence, Jenkins, GitHub Workflows |

Applications

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|-----------------------------------|--|--|
| Docufy COSIMA Ovidius ARC-Desk | Ovidius TCToolbox Adobe Livecycle ES4 | Docufy Machine Safety AntennaHouse Formatter, Apache FOP |
| Toplevel Formatter | WCMS Plone, ZOPE | Camunda BPM, AWS S3, Docker |

Server, Databases, OS

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|---|--|---|
| MarkLogic Server, eXist DB. Apache Solr, MiniIO Postfix | MongoDB Apache HTTPD Linux, Mac OS | JBoss nginx Windows Desktop / Server Docker, Containerization |
|---|--|---|

Relevant Experience

Since January 2024, Senior Software Engineer

CAD-IT Ltd., Coventry, UK, remote

XML & Python Development for an S1000D XML publishing project at GE Aerospace.

July 2022 – December 2023, Software Engineer, Advanced Consultant

Alter Solutions GmbH, Düsseldorf, remote

Agency Worker (ANÜ) at Mercedes Benz Tech Innovation GmbH (remote)

- Development of existing Python software at the department of Information Security Architecture
 - Centralized vulnerability scanner, backend for Qualys scans
 - Form-based security risk evaluation and assessment
 - Developed vulnerable test apps

January 2020 – June 2022, Software-Developer

Docufy GmbH, Bamberg

Docufy specializes in publishing solutions for companies in the mechanical engineering sector and for the automotive industry. Also, worked for Docufy from 2008 - 2012, see below.

- Maintained and extended existing XML/XSL transformations.
- Developed XML data migrations from legacy systems into COSIMA CMS (SDI)
- Extended the XSLT layer of Docufy Machine Safety for new requirements (ATEX, EX-Marking)
- Provided technical expertise regarding BPMN process design.
- Research & Development (XML Editor, BPMN Engine), Copy 'n Paste from Word in COSIMA

Since January 2016, Hobby-Project, Fullstack-Developer

Tektur CCMS, Bamberg

Tektur will be an easy-to-use Component Content Management System (CCMS) featuring the latest web technology. Started my personal project when commuting between Bamberg and Berlin, see <https://www.publiziere.de>

September 2018 – December 2019, XML-Developer

LambdaWerk GmbH, Berlin

LambdaWerk specializes in data interchange and transformation systems for the U.S. managed healthcare sector The U.S. Owner closed the company.

- Developed XML transformations, XQuery scripts (MarkLogic) and BPMN diagrams (Camunda) for automating encounter submission and daily reporting tasks for Medical Care North America (MCNA)

October 2016 – August 2018, Senior Consultant

eggs unimedia GmbH, Munich

Adobe Enterprise Solution Partner since more than 15 years.

- 1st-level-support, training, and consulting regarding Adobe Lifecycle ES4 BPM projects. Clients included research organizations, insurance companies and banks.
- Put the focus on a project of the Fraunhofer Institute, which is Europe's largest application-oriented research organization. The requirement report of all subsidiaries has been controlled by a large BPMN process, that features a three-step approval process and numerous review cycles.
- SCRUM was implemented together with system analysts at the client's site. For managing the complex form-based workflow, also XML specific technology (XSLT, XSD) is used.

January 2014 – September 2016, Consultant / Application Developer

Ovidius GmbH (a gds company), Berlin

Ovidius specializes in publishing solutions for companies in the mechanical engineering sector and for airlines.

- Technical project management for Airbus Helicopters; I was concerned with the cost estimation and risk evaluation of a new publishing process (NH90 Aircrew Paper Manuals); The information architecture of the project is based on the S1000D SGML DTD; Communicated and tested requirements between the customer, the DEV team in Berlin and a subcontractor in Australia (TurnKey Systems),
- Provided technical expertise regarding PDF layout and automatic typesetting,
- Provided the Idea, the basic concept, system architecture and development for a new product: Ovidius ARC-Desk. (ARC-Desk is a content delivery portal and document-oriented ticket system for approval, review and change management, featuring a fine-grained rights management and many complex transformation processes that can be customized using XML configuration files and a web interface. Currently ARC-Desk is used by some airline companies and others) Single developer until Version 2.0.
- Provided the concept and the development for a browser-based XML editor.

September 2012 – December 2013, Javascript-Developer

upjers GmbH & Co. KG, Bamberg

upjers is a developer and publisher of browser based online games with more than 50 million players.

- Developed the HTML5 frontend of a new browser game (JavaScript / JQuery / Construct2);
- Communicated and agreed on the complex JSON interface with the backend developer.

January 2008 – August 2012, Software-Developer

Docufy GmbH, Bamberg

Docufy specializes in publishing solutions for companies in the mechanical engineering sector and for the automotive industry.

- New product development COSIMA go! XSL Stylesheets. COSIMA go! is the CCMS (component content management) standard solution that runs "out-of-the-box". XSL stylesheets constitute the presentation layer.
- Implemented the XSL stylesheets for Endress+Hauser featuring a variant of PI-MOD content model,
- Provided the concept and the development of processes for attaching supplier documentation in different paper formats to existing print publications.
- Specification of the requirements of a new XSL Stylesheet for the Volvo project,
- Maintained and extended existing XSL transformations,
- Provided the concept and development of a library for sorting multi-level back-of-the-book index. (asian language support)
- Developed all the XSLT transformations of the product Docufy Machine Safety,
- Developed the editor component of the product COSIMA Information Provider
- Coordinated a XSLT DEV team in India.

January 2001 – December 2007, Freelancer

Various companies, Munich

- Developed three commercial mobile games, ported these games to different cell phone models.
- Worked on the game engine of a state-of-the-art commercial casino game.
- Web development with WCMS Zope/Plone
- Worked as a tutor „Software Engineering“ at FernUni Hagen
- Attended university BS Computer Science program
- Bachelor's thesis: <http://www.publiziere.de/bachelor/Literatur/bachelor.pdf>