

Andreas Jung

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Short introduction

Technologies:

- Python since 1993 (expert)
- Plone CMS since 2001 (expert)
- NoSQL and RDBMS database

Working areas:

- Backend development and integration
- Individual software solutions with Python
- Database-driven applications
- Electronic publishing solutions (XML, DOCX, HTML, PDF etc.)
- Automatic text layout
- Single-source multi-channel publishing solutions
- Web applications and portals
- Web-Portale
- Microservices

Roles:

- Developer
- Analyst & Architect
- Team lead
- Project manager
- Trainer

Strength:

- Ability to work through and in complex domains
- More than 25 years in backend development
- Risk assessment
- Structured thinking
- Project planning and communication
- Stakeholder management
- Connected with various open-source communities

Engagement:

- Member of Zope Foundation
- Member of Plone Foundation
- Found of German Zope Use Group
- Co-Organizer EuroPython 2012 in Berlin
- Organizer Python Meetup Tübingen
- 10 years release manager for Zope application server
- Regular speaker at various conferences

Repositories:

- 150 repositories on Github (github.com/zopyx)
- Misc repositories on Bitbucket (bitbucket.com/ajung)
- Author of various Python, Zope and Plone add-ons
- Contributor to various projects

CV

born 21.7.1967 in Saarbrücken

1986 Abitur

1986 - 1988 Civil service

1989 -1992 Studies in Church Music

1989 -1995 Studies in Computer Science and Electrical Engineering in Saarbrücken (Diplom degree)

1995 - 1996 Software developer for Creatix Polymedia, Saarbrücken

1996 Software developer for Infeurope S.A., Luxemburg

1996 - 2001 Software developer for Saarbrücker Zeitung, Electronic Publishing department

2001 - 2002 Software developer for Zope Corporation, USA

2002 - 2003 Software developer and consultant for Haufe-Lexeware

since 2004 Founder and managing director of ZOPYX

since 2004 Freelancer for Python, Zope, Plone, Electronic Publishing

2000 - 2010 Release manager of Zope

2012 - 2013 Team lead for Enquos.com

Languages:

- Germany (native speaker)
- English (expert level) yellow world

References (excerpt)

- **OpenGrid Europe:** Software development and support of the DataScience team with software for the simulation of hydrogen distribution networks (Python, DataScience tools) (04-05.2025)
- **E.ON:** Strengthening the backend team for a B2B app in the Green Energy sector, Python development and software architecture, requirements engineering, legacy code handling, Terraform, Azure, MongoDB (06/2024-03/2025)
- **eClear.com:** Support in the area of Python, backend development, FastAPI, OAuth2 (03-05/2024)
- **Abstract Technology:** Support in the area of Plone CMS software development and migration for the University of Bologna (10/2023-03/2024)
- **Q.ANT GmbH:** Software consultant in the field of laboratory automation for research projects in quantum mechanics and quantum computing. Technologies: Python, Pandas, Polars, hardware-related software development, handling of lasers, laboratory measuring devices etc. 05-09/2023
- **Sonnen GmbH:** Software architecture of a new billing platform, proof-of-concept implementation, Python mentoring and training. Python, AWS. 05/2022-12/2022.
- **E.ON Energy:** Architecture and implementation of the new E.ON bonus engine (Python, data science topics, Gitlab, Azure Devops). 08/2021-03/2022.
- **EWE Energy Trading:** Support and consulting in Python development, microservices, system architecture and mentoring, Docker + AWS - 02-04.2021.
- **Abstract Technologies:** Python development, Plone CMS development for e-teaching.org, Plone CMS relaunch, CMS migration. 03/2022-03/2023.

- **Kitconcept/HU-Berlin:** Python and Plone development support, Docker - 07-12.2020.
- **ESCrypt/Bosch:** Python in Automotive Intrusion Detection Environment - 11-12.2020.
- **German Society of Hematology and Medical Oncology:** Realization of the portal www.onkopedia.com (XML based Publishing Workflows), period 2010 - today
 - Realization of a single-source multi-channel publishing portal for the publication of medical guidelines for a medical society.
 - Publishing Workflow: DOCX -> XML -> HTML | PDF | ePub
 - Realization based on Python 2, Plone 4, eXist-DB, XML-Director
 - Connection of the central applications to C-Rex.net and Produce & Publish Webservices
 - Complete relaunch/redesign of onkopedia.com in 2019 on top of Plone 5.2/Python 3
- **University of the Saarland:** E-procurement platform for the central chemicals warehouse with shop, order management, link to SAP, 2016 - today
 - Complete new conception of a shop for the central procurement of the Saarland University
 - own order management for the shop
 - technical base: Python, Plone 4
 - Elasticsearch Integration
 - Connection to SAP and third-party systems via web service interfaces
 - Realisation of a hazardous substances register with graduated rights management for university employees, fire brigade and company doctor

- Extension of the system into 2017 for the central procurement of the entire university
- **Dynamore GmbH:** Takeover, maintenance and redesign of a portal landscape with approx. 10 Plone portals, 2016 - today
 - Ensuring the general portal functionality
 - New development of a seminar module
 - Integration of a new license generator
 - from Q3/2017: New concept and relaunch of public portals
 - Elasticsearch Integration
 - Consulting, Training
 - Python 2, Plone 4/5
 - Migration and Relaunch on top of Plone 5/Python 2+3
- **Beuth Hochschule für Technik Berlin:** Study on privacy with medical apps. 2019
- **Humboldt University Berlin:** Coaching and support with Plone 5/Python 3 migration. 2019 - 2020
- **Mediaman/Suzuki Germany:** Plone 5 Consulting, Plone coaching and consulting for suzuki.de. 2019 (ongoing)
- **University of Gent:** Migration support of the ugent.be website from Plone 4 to Plone 5 (Python 3), Plone/Python backend development, consulting and coaching. 2019-2020
- **Arculus:** architecture, consulting, Python 3 development in modular assembly, environment industry 4.0. 2018 - 2019
- **ITAD (Interessengemeinschaft der Thermischen Abfallbehandlungsanlagen in Deutschland e.V. - Association of Thermal Waste Treatment Plants in Germany)): Migration and development of Plone 4 + Plone 5.0. 2017 - today**
- **Bresto Media:** Realization of an electronic publishing application with Magento connection for the PDF generation of ballot papers

for local and municipal elections in Baden-Württemberg based on the standard exports of the corresponding software applications in the municipalities and districts. 2018 - today

- **Inzept3D:** Connection of a Flask-based application to the payment backend of Heidelpay for registration and payment via SEPA direct debit and credit cards. 2017/2018.
- **GrandCentrix:** Support for Python-based implementation of microservices for the mobile apps of a Swabian machine manufacturer, Elasticsearch configuration for 30 languages Further details not available due to confidentiality obligation. 2017
- **Axxessio/Telekom:** Python-based development of micro services. Further details not available due to secrecy obligation. 2017
- **LACON Institut:** Acquisition and further support of a Python-based portal software for the administration and control of food certification processes, 2017
 - Python 2, Plone 4/5
- **WhereGroup:** Acquisition and further support of a Python-based laboratory software for rock testing. 2017
 - Porting from Python 2 to Python 3
 - Framework: Pyramid, Flask
 - Improvement of performance
 - Troubleshooting and stability improvements
- **Omicron:** Implementation of a new Internet presence (subcontracted):
 - Python 2, Plone 5
- **T-Systems:** Migration of a large legacy application (Zope, Python, Oracle), 2016-2017
 - Migration of the old Zope/Python codebase from Zope 2.7 to Zope 2.13, approx. 200.000 LOC
 - Porting Oracle SQL Stored Procedures and How They Work

- The project was terminated prematurely after a further assessment of the cost/risk/benefit ratio.
- **EU Project EUDAT:** Web portal for coordination and planning of network resources and services, Max Planck Society, RZG Garching, 2017
 - Implementation based on Python 2 and Plone 4
 - Realization of various content types
 - Advice on the overall architecture
 - Review Architecture and Security
 - Client-server architecture (web service) for capturing timeseries data from services distributed throughout the EU.
- **Enquos:** Team-Lead and Technical Architect for enquos.com, period: 2013 - 2014
 - Realisation of a "Self-Quantification" portal for personal tracking of your own health data and eating habits
 - Tasks: initial design and architecture
 - Composition of the initial development team and leadership of the team for approx. 2 years
 - Realization of the main portal based on Python 2 + Pyramid
 - Conception of various JSON Webservice APIs for mobile applications, schema design and verification
- **Energieberatung GmbH:** Conception and realization gasmonitoring.info, period 2012- today
 - Realisation of a platform for large industrial customers to plan gas purchases and track their own consumption
 - Implementation based on Python 2 and Plone 4
 - Visualization via Highcharts
 - Extraction of domain-specific knowledge (no written documentation of business logic)

- Formalisation and codification of knowledge in the field of gas procurement
- Microservice/REST API for import/export of consumption information (format: MSCONS/EDI)
- Full text search SOLR → Elasticsearch
- The project was discontinued (due to lack of recapitalisation)
- Full text search SOLR, Elasticsearch
- **Leibniz Institut für Wissensmedien:** Realization of the portal www.e-teaching.org, period 2014/2015
 - Advice on relaunch
 - Migration (Export/Import)
 - Graphic/Design Implementation
 - Implementation based on Python 2 and Plone 4
- **Hertie-Stiftung:** Support and further development of the dasgehirn.info portal, period 2012 - today
 - Python 2, Plone 4
- **Gesellschaft für Datenschutz und Datensicherheit:** Support and further development of the portal gdd.de, period 2014 - today
 - Python 2, Plone 4
- **Other university customers:**
 - University of Marburg
 - Humboldt University Berlin
 - Max Planck Society (period 2004 - 2015)
- **Saarländischer Rundfunk:** Realisation and support www.unserding.de (2004 - 2006)
- freelance work for **Haufe-Lexware** in Freiburg (2003 - 2012)
- Company partnerships:

- **Cusy IO**, Berlin: For many years there has been a very close partnership and networking in customer projects.
- **Abstract Technology**, Berlin: Networking in Graphics & Design, Creation and Publishing
- and much more.
- Complete reference list:
 - <https://www.zopyx.de/referenzen>
 - <https://www.produce-and-publish.de/showcase/referenzen>

Own projects

- **Produce & Publish**: Single-Source Multi-Channel Publishing solution
- **XML-Director**: platform for XML publishing applications
- **print-css.rock**s: CSS Paged Media tutorial
- **content-gemeinsam-erstellen.de** collaborative editing solution for web applications
- **TextIndexNG3**: fulltext search for Zope & Plone

Rates and conditions

- negotiable
- Payment within 10 business days after invoicing without discount

