



Dipl. Wirt.-Inf. Adam Lukaszewski

Trainer und Lead Developer/Architekt

Personal Information

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Geburtsjahr: 1984

Profil

I am a Senior Developer and Architect based in Hamburg. With over ten years of experience in professional application development and architectural consulting, I provide tailored solutions across various domains. I support my clients from the initial concept and planning phase, through requirements analysis, to the successful operational readiness of the software.

My clients describe me as a highly motivated team player who strives to deliver optimal solutions that consider both technical and business requirements. My focus is not only on technical implementation but also on addressing the needs of business stakeholders and users. Naturally, I pay close attention to the balance of cost, performance, and quality.

I work with globally recognized technologies such as SQL databases (Oracle, MySQL, PostgreSQL, Teradata), various programming languages (Java, TypeScript, Python), and highly scalable cloud services (PaaS, FaaS, DaaS) from AWS and GCP. My primary motivation is to deliver the highest quality possible.

My Services at a Glance

- **Training and Coaching:** Conducting training and workshops on cloud and software development topics.
- **Senior Software Development:** Providing consultation and support in the conception and implementation of software projects at a senior level.
- **Cloud Migration and Development:** Performing analyses and developing cloud migration strategies (lift-and-shift, re-platform, rebuild) as well as creating cloud-native software.
- **Service and Application Integration:** Developing integration and orchestration solutions for various services and applications.

With my extensive expertise and commitment to quality, I support you in successfully executing your projects and achieving your business goals. Let's work together to develop innovative and sustainable solutions!

Category	Technology	Experience	Proficiency
Programming	Java, Java Servlets, JSP, JDBC	10+ years	●●●
	Oracle PL/SQL / SQL	10+ years	●●●
	Kotlin	5 years	●●●
	Python	10+ years	●●●
	Bash	10+ years	●●○
	R-Cran	3 years	●●○
	TypeScript	4 years	●●○
	JavaScript	3 years	●●○
Databases	Oracle	7 years	●●●
	MySQL	4 years	●●●
	PostgreSQL	5 years	●●●
	AWS DynamoDB	4 years	●●●
Enterprise Solutions	Amazon Web Services (AWS)	10+ years	●●●
	Oracle Enterprise Business Suite (EBS)	4 years	●●●
	Oracle Reports	4 years	●●●
	Oracle Forms	4 years	●●●
	Talend ESB	5 years	●●●
	Talend Data Integration	4 years	●●●
	Google Cloud Platform (GCP)	5 years	●●○
	SAP	3 years	●●○
	Oracle Apex	3 years	●●○
Frameworks	Java Persistence API (JPA)	10+ years	●●●
	JAX-RS	10+ years	●●●
	Jackson	10+ years	●●●
	Eclipse RCP	4 years	●●●
	Spring Framework	4 years	●●●
	Apache CXF	4 years	●●○
	Apache Camel	10+ years	●●○
	Serverless (SLS)	5 years	●●○
	Chalice	2 years	●●●
	Cloud Development (AWS)	IAM	10+ years
EC2		10+ years	●●●
RDS		10+ years	●●●
Lambda		8 years	●●●
CloudWatch		10+ years	●●●
Elastic Beanstalk		5 years	●●●
EKS		4 years	●●○
ElasticSearch		4 years	●●○
SNS		10+ years	●●●

	SQS	10+ years	●●●●
	CodeCommit	4 years	●●●●
	VPC	8 years	●●●●
	DMS	3 years	●●●●
	API Gateway	8 years	●●●●
	CodePipeline	4 years	●●●○
	CodeDeploy	4 years	●●●○
	CloudFormation (CDK)	8 years	●●●○
	ECS	5 years	●●●●
Cloud Development (GCP)	GSuite	8 years	●●●●
	Datastudio	5 years	●●●●
	Cloud Storage	5 years	●●●●
	Pub/Sub	5 years	●●●●
	Kubernetes Engine	2 years	●●●○
	BigQuery	3 years	●●●○
	App Engine	4 years	●●●○
Others	Jira	10+ years	●●●●
	HTML, CSS	10+ years	●●●●
	XML, XSD, XSLT	10+ years	●●●●
	Eclipse	5 years	●●●●
	Git, SVN, CVS	10+ years	●●●●
	Maven	10+ years	●●●●
	Gradle	5 years	●●●●
	Oracle SQL Developer	7 years	●●●●
	REST	10+ years	●●●●
	Docker	8 years	●●●●
	Apache Tomcat	5 years	●●●○
	Oracle Weblogic	5 years	●●●○
	JBoss	2 years	●○○○
	Apache Karaf	1 year	●○○○

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Cloud Architect / Lead Developer / Coach - Mercedes Benz (01/2023 - dato)

- Summary: Developed a generic platform in AWS for testing Electronic Control Units (ECUs) of various types, focusing on quality assurance and reducing intensive hardware-specific testing.
- Challenges and Solutions:
 - Challenge: Creating a robust and scalable platform for ECU testing to improve quality assurance and minimize hardware-specific tests.
 - Solution: Designed the foundational architecture in AWS and developed multiple backend services using a microservice architecture, primarily in Python. Developed core libraries, such as the OAuth token flow, to support backend and frontend integrations. The platform underwent a security audit and successfully passed.
- Technologies: AWS (ECS, Lambda, Chalice, DynamoDB, VPC, EC2, EC2 Image Builder, SNS, SQS, IAM, CDK), Python, C#, npm, Typescript, poetry.

Backend Developer / DevOps - VTG Rail Europe GmbH, Hamburg (07/2022 - 12/2022)

- Summary: Provided consulting and development services for the maintenance and further development of the traigo.com platform.
- Challenges and Solutions:
 - Challenge: Expanding platform functionalities and ensuring operational stability in an AWS environment.
 - Solution: Implemented customer use cases with IoT and serverless approaches, designed APIs, and improved infrastructure provisioning with Infrastructure as Code.
- Technologies: Kotlin, PostgreSQL, Github, Gradle, DataDog, IntelliJ, Git, Kubernetes, AWS (SNS/SQS, S3, Athena, EKS, RDS, Lambda, DynamoDB), Spring Boot, Docker, GitLab, Terraform.

AWS Trainer / Coach - Academic Work Germany GmbH, Hamburg (09/2022 - 10/2022)

- Summary: Planned and conducted a five-week AWS training course to prepare 16 consultants for AWS certification.
- Challenges and Solutions:
 - Challenge: Effectively conveying complex AWS concepts within a limited time.
 - Solution: Developed comprehensive curriculum with theoretical and practical components, including mini-projects.
- Technologies: Python, AWS (EC2, CloudTrail, Config, Lambda, VPC, CodeCommit, DynamoDB, CloudWatch, IAM, SNS/SQS, SES, CloudFormation, Elastic Beanstalk), Git.

Software Architect / DevOps / Fullstack - Media-Saturn IT Services GmbH, Ingolstadt (12/2021 - 07/2022)

- Summary: Conceptualized and implemented a master data application for processing contracts and purchasing conditions in a GCP cloud environment.
- Challenges and Solutions:
 - Challenge: Integrating multiple systems and ensuring data consistency.
 - Solution: Developed a single point of truth API and refactored interfaces to REST endpoints.
- Technologies: Kotlin, PostgreSQL, Github, Gradle, Kibana, Grafana, IntelliJ, Git, Kubernetes, GCP (Kubernetes, Cloud Storage, PubSub), Helm, Docker, TypeScript.

Software Architect / Software Developer - BMW Group, Munich (05/2021 - 12/2021)

- Summary: Enhanced global backend microservices for the My BMW App, optimizing service mesh architecture in AWS.
- Challenges and Solutions:
 - Challenge: Improving the scalability and efficiency of backend services.
 - Solution: Developed and implemented technical concepts, optimized the service mesh architecture, and conducted deployments in EMEA, US, and China.
- Technologies: Java EE, Mockito, Jenkins, Maven, Kibana, Grafana, IntelliJ, Git, Joynr, Kubernetes, AWS (ECS, EKS, ECR, RDS, SNS, SQS), Redis, PostgreSQL.

Integration Architect / Software Developer - CHEFS CULINAR GmbH & Co. KG, Hamburg/Kiel (02/2021 - 05/2021)

- Summary: Developed and implemented a master data integration for a CRM system (Aurea CRM) and SAP.
- Challenges and Solutions:
 - Challenge: Ensuring data consistency and synchronization between CRM and SAP systems.
 - Solution: Built a change-data-capture logic and implemented bidirectional data synchronization using Talend.
- Technologies: Talend ESB, Talend DI, Postman, Java, XSLT, XML, SQL, PL/SQL, Citrus (Test Framework), Jenkins, Maven, Kibana, IntelliJ, Git, Subversion.

Integration Architect / Software Developer - CHEFS CULINAR GmbH & Co. KG, Hamburg/Kiel (04/2020 - 05/2021)

- Summary: Developed integration for master and transactional data during SAP implementation, integrating an existing ERP system (Adabas) into SAP.
- Challenges and Solutions:
 - Challenge: Maintaining data integrity and seamless integration with SAP.
 - Solution: Developed a REST interface and implemented change-data-capture logic.
- Technologies: Adabas, Teradata, Talend ESB, Talend DI, Postman, Java, XSLT, XML, SQL, PL/SQL, Oracle Apex, Citrus (Test Framework), Jenkins, Maven, Kibana, IntelliJ, Git, Subversion.

Cloud Architect / Software Developer - EDEKA DIGITAL GmbH, Hamburg (01/2020 - 03/2020)

- Summary: Developed a serverless microservice for market search on edeka.de and managed build and deployment pipelines in AWS.
- Challenges and Solutions:
 - Challenge: Designing a scalable and efficient serverless solution.
 - Solution: Implemented AWS Lambda and integrated the solution into the existing microservice landscape.
- Technologies: TypeScript, AWS (Lambda, CodeBuild, CloudFormation, SQS, SNS, S3, ElasticSearch), Kibana, localstack, Serverless Framework (SLS), PostgreSQL, IntelliJ.

System Analyst / Software Architect - DERMALOG Identification Systems GmbH, Hamburg (01/2020 - 03/2020)

- Summary: Developed a public government interface for biometric verification, integrating existing processes and orchestrations.
- Challenges and Solutions:
 - Challenge: Ensuring secure and efficient biometric data processing.
 - Solution: Developed a web-based interface and defined generic data models for the public API.
- Technologies: Oracle 12g, Java EE, PL/SQL, SQL, utPLSQL, Spring, SQL Developer, Git, XML, XSLT, XSD, REST.

System Analyst / Software Developer - DERMALOG Identification Systems GmbH, Hamburg (12/2018 - 12/2019)

- Summary: Refactored and optimized a multi-layered application for processing biometric data and providing state documents.
- Challenges and Solutions:
 - Challenge: Enhancing performance and scalability of a critical application.
 - Solution: Refactored the system and implemented technical measures to increase throughput.
- Technologies: Oracle 12g, Java EE, PL/SQL, SQL, utPLSQL, Spring, SQL Developer, Git, XML, XSTL, XSD, HTML, Oracle Apex.

Java Developer / Talend Developer - Veolia Umweltservice, Hamburg (11/2018 – 11/2018)

- Summary: Developed ETL processes for a Data Lake (DWH) for unified company-wide reporting.
- Challenges and Solutions:
 - Challenge: Integrating various data sources into a unified reporting system.
 - Solution: Implemented ETL processes and a change-data-capture mechanism.
- Technologies: Oracle 11g, Talend DI, PL/SQL, Java EE, AWS DMS, GCP Datastudio, GCP BigQuery, GCP Cloud Storage.

Python Developer - Veolia Umweltservice, Hamburg (10/2018 - 11/2018)

- Summary: Developed a serverless instant messenger client for monitoring AWS services and direct notifications to Telegram Bot.
- Challenges and Solutions:
 - Challenge: Efficiently monitoring AWS services and providing direct notifications.
 - Solution: Implemented a cost-effective Function as a Service.
- Technologies: AWS CodeCommit, AWS SQS, AWS SNS, AWS Lambda, AWS CloudWatch, Serverless (SLS), Python, Git.

Java Developer - Veolia Umweltservice, Hamburg (04/2018 - 10/2018)

- Summary: Developed an interface layer for bidirectional communication between backend and frontend systems (customer portal).
- Challenges and Solutions:
 - Challenge: Ensuring seamless communication between backend and frontend systems.
 - Solution: Refactored interfaces and converted to REST endpoints (JSON).
- Technologies: Oracle 11g, AWS CodeCommit, AWS SQS, AWS SNS, AWS CloudFormation, AWS Lambda, AWS CloudWatch, Java EE, PL/SQL, SQL, Spring, Apache Camel, Junit, JPA, JAX-RS, Apache Karaf, Git.

Java Developer - Veolia Umweltservice, Hamburg (01/2018 - 11/2018)

- Summary: Led the realization of a company-wide Move-to-Cloud strategy, coordinating migration of various solutions to AWS and GCP.
- Challenges and Solutions:
 - Challenge: Migrating multiple solutions to cloud platforms while ensuring minimal disruption.
 - Solution: Developed migration strategies and refactored interfaces for cloud integration.
- Technologies: Oracle 11g, Talend DI, Talend ESB, AWS DMS, AWS CodeCommit, AWS Beanstalk, AWS RDS, AWS CloudFormation, AWS Lambda, Serverless (SLS), PL/SQL, Java EE.

Java Developer - Veolia Umweltservice, Hamburg (01/2018 - 03/2018)

- Summary: Redesigned an old interface to a REST-based API for a Document Management System.
- Challenges and Solutions:
 - Challenge: Modernizing the interface design for better integration with DMS.
 - Solution: Implemented Apache Camel REST DSL endpoints.
- Technologies: Oracle 11g, Talend ESB, AWS CloudFormation, AWS EC2, Java EE, Maven, Nexus.

Java Developer / Talend Developer - Veolia Umweltservice, Hamburg (08/2016 - 12/2017)

- Summary: Led the development of a Data Warehouse for company-wide reporting, utilizing cloud-based GCP BigQuery.
- Challenges and Solutions:
 - Challenge: Integrating multiple data sources into a comprehensive reporting system.
 - Solution: Developed ETL processes and implemented a change-data-capture mechanism.
- Technologies: Oracle 11g, Teradata, SQL Developer, Talend DI, PL/SQL, AWS DMS, AWS CodeCommit, AWS CLI, Git.

Oracle Database Developer - Veolia Umweltservice, Hamburg (01/2016 - 08/2016)

- Summary: Developed and tested a telematics integration for paperless order processing.
- Challenges and Solutions:
 - Challenge: Integrating multiple systems for paperless order processing.
 - Solution: Implemented an Oracle Forms and Reports application for electronic document exchange.
- Technologies: Oracle 11g, Oracle Forms, Oracle Reports, PL/SQL, Java EE, AWS CodeCommit, Git.

EBS Developer / Consultant - KGAL, Munich (02/2015 - 07/2015)

- Summary: Provided technical consulting for the implementation of an Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Clarifying technical and business integration solutions.
 - Solution: Developed high-level concepts and conducted feasibility analyses.
- Technologies: Oracle 11g, PL/SQL, Java EE, Oracle BI, E-Business Suite, Oracle Forms, WebADI.

EBS Developer / Database Developer - Hofmeister & Meinke, Bremen (01/2015 - 02/2015)

- Summary: Developed a critical interface for mass data maintenance in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Managing mass price information updates.
 - Solution: Implemented PL/SQL interface logic and integrated it into the E-Business Suite.
- Technologies: Oracle 12g, PL/SQL, Oracle BI, Oracle WebADI, E-Business Suite.

EBS Developer / Database Developer - Duales System Deutschland, Cologne (11/2014 - 12/2014)

- Summary: Developed ERP add-on interfaces for capturing transaction data.
- Challenges and Solutions:
 - Challenge: Migrating transaction data during a tenant takeover.
 - Solution: Implemented ETL processes and add-on interfaces for Oracle E-Business Suite.
- Technologies: Oracle 12g, PL/SQL, E-Business Suite.

EBS Developer / Database Developer - Praxair, Hamburg (08/2014 - 11/2014)

- Summary: Developed ETL processes for ERP implementation in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Migrating fixed assets data to the new ERP system.
 - Solution: Implemented PL/SQL data transformation routines.
- Technologies: Oracle 12g, PL/SQL, E-Business Suite.

EBS Developer / Database Developer - Primacom, Leipzig (07/2014 - 08/2014)

- Summary: Developed ETL processes for migrating tenant data in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Migrating transaction and master data for a new tenant.
 - Solution: Implemented PL/SQL data transformation routines and data cleansing.
- Technologies: Oracle 12g, PL/SQL, E-Business Suite.

Java Developer - myToys, Berlin (02/2014 - 06/2014)

- Summary: Improved development processes by implementing continuous integration.
- Challenges and Solutions:
 - Challenge: Optimizing development processes and project resources.
 - Solution: Implemented Maven, Nexus, and Jenkins for continuous integration.
- Technologies: Oracle 11g, Java EE, Arquillian, Weblogic, Tomcat, E-Business Suite.

Java Developer - myToys, Berlin (01/2014 - 02/2014)

- Summary: Developed and extended a mobile web application for Motorola devices.
- Challenges and Solutions:
 - Challenge: Modularizing and internationalizing a JavaServerPage-based frontend.
 - Solution: Refactored the existing Java EE project and centralized CSS for styling.
- Technologies: Oracle 11g, PL/SQL, Java EE, JSP, Weblogic, Tomcat, E-Business Suite.

EBS Developer / Database Developer / Java Developer - Hofmeister & Meinke, Bremen (12/2013 - 01/2014)

- Summary: Developed ETL processes for migrating data in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Migrating creditor data to a new Oracle E-Business Suite instance.
 - Solution: Implemented PL/SQL data transformation routines and data cleansing.
- Technologies: Oracle 11g, PL/SQL, Java SE, Weblogic, Oracle E-Business Suite, Oracle WebADI.

EBS Developer / Database Developer - myToys, Berlin (10/2013 - 12/2013)

- Summary: Developed an automated inventory withdrawal process in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Reducing personnel effort in inventory management.
 - Solution: Implemented highly parameterizable background programs for inventory management.
- Technologies: Oracle 11g, PL/SQL, Oracle E-Business Suite, Oracle Forms.

EBS Developer / Database Developer - Primacom, Leipzig (09/2013 - 10/2013)

- Summary: Developed additional interfaces for master data maintenance in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Providing supplementary SEPA information for Oracle E-Business Suite.
 - Solution: Implemented SQL statements for data extraction and staging.
- Technologies: Oracle 12g, PL/SQL, Java SE, Weblogic, Oracle E-Business Suite, Oracle WebADI, Oracle BI.

EBS Developer / Database Developer - ADP, Neu-Isenburg (06/2013 - 09/2013)

- Summary: Developed additional interfaces for capturing master data in Oracle E-Business Suite.
- Challenges and Solutions:
 - Challenge: Simplifying migration of transaction data.
 - Solution: Implemented Oracle WebADI data migration solutions.
- Technologies: Oracle 11g, PL/SQL, Java SE, Weblogic, Oracle E-Business Suite, Oracle WebADI, Oracle BI.

Employment History

Scientific Staff Member - Technische Universität Hamburg-Harburg (12/2018 - 12/2019)

- Summary: Analyzed structural equation methods in parallel runtime environments and implemented software-based simulation methods.
- Responsibilities:
 - Conducted statistical method comparisons using R.
 - Implemented the Generalized Structured Component Analysis (GeSCA) algorithm in R.
 - Simulated in a large cluster environment using R Snowfall.
- Technologies: R-Cran, R Snowfall, Bash, Java SE, R Snowfall.

Education / Studies

2004 – 2011	Studied Business Informatics at the University of Hamburg, Degree: Diploma (Grade: 1.6)
2004	High School Diploma (Grade: 1.8), Hamburg

Zusatzqualifikationen

Languages:	German: Native
	Polish: Native
	English: Fluent