

Curriculum vitae

PERSONAL INFORMATION



Benjamin Klum

📍 Förstereistr. 40, 01099 Dresden (Germany)

☎ +49 1577 6805586

✉ info@benjamin-klum.com

🌐 www.benjamin-klum.com

📅 Date of birth 14/01/1983

PERSONAL STATEMENT

Senior software developer specializing in back-end development. Over 8 years of experience in enterprise application engineering. Well-versed in numerous programming languages including Java, Scala, JavaScript and SQL.

Advanced application architect with strong background in specification, communication and documentation. Successfully employing state-of-the-art software modeling approaches such as domain-driven design. Familiar with requirements engineering.

Passionate music software developer with C++ skills.

WORK EXPERIENCE

02/05/2017–Present

Freelancer

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Software development and software architecture consulting with focus on back-end

15/09/2014–30/04/2017

Back-end developer and application architect

Avantgarde Labs GmbH

In my largest assignment, I worked as application architect on an E-Commerce project, specifying and estimating the integration of new features as well as conceiving and documenting a Microservice-based target architecture. I interacted on a daily basis with requirements engineers and developers.

In addition, I worked as part of a development team on a handful of data-intensive projects using Scala, Java, graph databases and some of the more recent functional reactive technologies such as Akka and RxJava. Occasionally I was responsible for developing prototypes employing ETL tools, big data and search technology.

19/06/2014–Present

Music software developer and vendor

Benjamin Klum, Helgoboss Projects

As a sideline, I conceive, design, develop and sell plug-ins for professional DAW software, targeted at performers and producers of electronic music. The main technologies I use for this purpose are Android, RxJava, C++ 11, CMake, MSVC, RxCpp, VST SDK and REAPER SDK.

Additionally, I publish general-purpose open source libraries from time to time.

The results of my work are presented on my project website www.helgoboss.org.

15/09/2008–31/08/2014

Full-stack developer and application architect

T-Systems Multimedia Solutions GmbH

In 10 mid- to large-sized projects I was responsible for design, implementation and maintainance of enterprise-scale data-intensive Java web applications, contributing to both back and front ends.

Over time I was more and more entrusted with architectural responsibility, requirements engineering tasks, effort estimates, direct contact to clients and technical lead positions. The projects covered a wide range of sectors including Telecommunications, Media, Health, Public, Logistics, Marketing and Transport.

1 Sep 2007–31 Aug 2008 **Working student**

T-Systems Multimedia Solutions GmbH

I worked for the load testing department and my task was to develop a Java web application for management and analysis of load testing results.

EDUCATION AND TRAINING

16/05/2014 **Certified Professional for Requirements Engineering**

IREB®, iSQI

31/05/2013 **Certified ScrumMaster**

ScrumAlliance

28/06/2012 **Oracle Unified Business Process Management Suite 11g Certified Implementation Specialist**

Oracle

30/11/2010 **Oracle Certified Professional Java SE 6 Programmer**

Oracle

01/10/2002–31/03/2008 **Diploma in Informatics**

Friedrich Schiller University Jena

Specialization: Programming, software engineering and compiler construction

PERSONAL SKILLS

Mother tongue(s) German

Foreign language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | B2 | C1 | B2 | B2 | C1 |
| Czech | A2 | B1 | A2 | A1 | B1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

Languages and protocols: Java 8, Kotlin, Scala, C++ 11, SQL, HTML, CSS, UML 2, BPMN 2.0, HTTP, JavaScript, TypeScript, XSLT, Groovy, Shell, XSL-FO, SOAP

Architecture and code quality: arc42, Domain-Driven Design, Clean Architecture, Object-Oriented Design, GoF Design Patterns, REST, GRASP Patterns, Microservices, FindBugs, PMD, Checkstyle

Web frameworks and APIs: JAX-RS, Jersey, Spring MVC REST, Servlets, JAX-WS, CXF, WebSocket++, PayPal IPN, Amazon AWS SES

Test frameworks and libraries: JUnit, Mockito, TestNG, ScalaTest, JMockit, Cucumber

Other frameworks and libraries: Spring Boot, Spring Cloud, OSGi Core, JPA, Hibernate, Liquibase, Spring Data, Camunda, Activiti, Jackson, Spring Core, EJB 3.1, EclipseLink, AspectJ, C++ Boost, Quartz, Rhino, Bean Validation, JNI, Spring Security, CDI, Guice, Dagger 2, DeltaSpike

Development tools: Git, SVN, IntelliJ IDEA, CLion, JMeter, Rational Synergy, Visual Studio for C++, Eclipse, VisualVM, SoapUI

Build management tools: Maven, Gradle, npm, Jenkins, Ant, CMake

Database management systems: Oracle, MySQL, HSQLDB, PostgreSQL, OrientDB

DevOps tools: Docker, Ansible, Rancher, Tomcat, Nginx, Jetty, JBoss

Logging and metrics: Logback, SLF4J, Log4j, Kibana, Graylog, Kamon, Metrics, Graphite, Grafana

Caching and messaging: Memcached, Ehcache, JMS, ActiveMQ, AMQP, RabbitMQ

Software development processes and frameworks: Scrum, Kanban

Audio editing and development: REAPER, IPlug Framework, REAPER SDK, Cubase, Nuendo, Steinberg VST SDK

Big data and ETL tools: Spark, Talend

Frontend frameworks and libraries: React, Android SDK, Anvil, Swing, Wicket, jQuery

Requirement engineering: Use Cases, User Stories, Requirement Templates, BDD, Gherkin

Diagramming tools: Enterprise Architect, PlantUML, yEd, Visual Paradigm for UML, Enterprise Architect SDK

Miscellaneous: Ubuntu, Debian, ArchLinux, Windows, Confluence, Swagger, GitHub, Bitbucket, JIRA, Microsoft Office

For a detailed project history and a regularly updated skill profile, please see my website www.benjamin-klum.com.