

IT Consultant



Personal data

Nils Bokermann

Am Gottesberg 9b
33619 Bielefeld
+49 173 292 00 52
nils.bokermann@bermuda.de
www.bermuda.de

Year of birth: 1971

At a glance:

- **Software architecture** of Java Enterprise applications
- **Security architectures** in application development
- **X.509 infrastructures**
- **Interface design** of distributed applications
- **Continuous Integration**
- **Specification by Example** (Behaviour Driven Design)
- **Software development in Java, C++, Groovy**

Vorträge:

- Infrastructure as Microservices – Alternativen zum Monolithen Kubernetes
 - Softwerkskammer Düsseldorf, 2019
 - Continuous Lifecycle/Container Conf, Mannheim, 2019
 - XP-Days, Stuttgart, 2019
 - DevOps Gathering, Bochum, 2020
 - JAX-Hybrid, Mainz, 2020
- Wie sicher ist "sicher" – TLS und weiter
 - JAX Hybrid, Mainz, 2022
 - Softwerkskammer Köln, 2022
 - Java Forum Stuttgart, 2022

Publikationen:

- Infrastructure as Microservices – Alternativen zum Monolithen Kubernetes, Java Aktuell, 02/2021
- TLS und weiter, Java Aktuell, 03/2022

Project history

01/2023-07/2024	<p>Seghorn GmbH, Bremen Design and implementation of a client portal for a service provider in the field of receivables management. Connection to IBM iSeries data storage, modular design and CQRS data structure.</p> <p>Senior Architect</p> <ul style="list-style-type: none">• Design• Software architecture• Implementation Java• Code Review Java and JavaScript <p>Tags CQRS, Spring, VueJS, Docker</p> <p>Frameworks Java 17, Spring Boot, VueJS, Docker, Ansible, Terraform, OpenAPI, Gitlab, Jenkins, Maven, Keycloak</p>
09/2022-12/2022 4 Months	<p>Systemum GmbH & Co KG, Braunschweig Implementation of adapter programmes for test evaluation in Polarion</p> <p>Senior Consultant</p> <ul style="list-style-type: none">• Connection of interfaces• Data transformation <p>Tags SOAP, XML, Java</p> <p>Frameworks Java 17, Stax, CXF, Spring Boot, Picocli</p>
09/2022-01/2023 3 Month	<p>Seghorn GmbH, Bremen Architecture analysis of a receivables management system.</p> <p>Senior Consultant</p> <ul style="list-style-type: none">• Architecture survey through interviews• Creation of a target architecture• Migration plan <p>Tags Architecture, Distributed Systems, Migration</p>
12/2021-12/2022	<p>Systemum GmbH & Co KG, Braunschweig Architecture documentation in the embedded environment.</p> <p>Senior Architect</p> <ul style="list-style-type: none">• Analysis of existing documentation• Creation of an architecture concept <p>Tags Architecture, Documentation, Embedded</p>
06/2021-06/2022 12 Month	<p>Verband der Vereine Creditreform, Neuss Development of a messaging platform for receivables management. The aim of the project was to gradually replace legacy systems with standard software that is connected to existing systems via a messaging system using REST services and mappers.</p>

Developer/DevOps Consultant

- Development in Java/Spring Boot
- Further development CI/CD platform
- Kubernetes Deployment
- Coaching

Tags

Java, Spring Boot, Microservice, Architecture, Kubernetes, Docker, Helm, OpenAPI, Hashicorp Vault

Frameworks

Java SE 11/17, Groovy, JPA, Spring Boot, Docker, Kubernetes, Ansible, OpenAPI, Jenkins, Maven, Jira, Confluence, Git, Junit 5, Mockito, AssertJ, IntelliJ IDEA, Scrum, Hashicorp Vault, AsciiDoc, Keycloak

04/2019-06/2021
26 Month

Verband der Vereine Creditreform, Neuss

Architecture analysis of a distributed application. Revision of the build and deployment pipeline. Conception of a platform solution based on Kubernetes. Realignment of the architecture of the legacy system to Kubernetes. Coaching in Java, git, Helm, Spring Boot.

IT Consultant

- Architecture analysis
- Further development of CI/CD platform
- Kubernetes Deployment
- Kubernetes Security
- Coaching

Tags

Java, Spring Boot, Microservice, Architecture, Kubernetes, Docker, Helm, OpenAPI

Frameworks

Java SE 8/11, Groovy, Hibernate, JPA, JAXB, Spring Boot, Docker, Kubernetes, Oracle, Ansible, OpenAPI, Jenkins, Maven, Jira, Confluence, Git, Junit 5, Mockito, AssertJ, IntelliJ IDEA, Scrum, AsciiDoc, Vue.js, Keycloak

04/2018-04/2019
12 Monate

Systemum GmbH & Co. KG, Braunschweig

Conversion of a fulfilment solution for e-mobility from JEE to self-contained microservices

Senior Java Developer

- Development of Java components
- Documentation of actual architecture
- Creation of architecture proposals for the target architecture
- Further development of CI/CD platform
- Conversion from Jenkins to Gitlab CI

Tags

Java, Dropwizard, Google guice, Microservice, Architecture

frameworks

Java 8, junit 4, Mockito, Plantuml, AsciiDoc, git, gitlab-ci, AsciiDoc

02/2018-05/2018 4 Monate	<p>anderScore GmbH, Köln Further development of a system for address rental and direct marketing.</p> <p>Senior Java Developer</p> <ul style="list-style-type: none"> • Development of Java components • Design and development of Vaadin interfaces • REST services • Requirements analysis • Reverse engineering <p>Tags Java, Kanban (or similar)</p> <p>Frameworks Java 8, junit 4, Spring, Vaadin, CSS, REST, SVN</p>
10/2017-01/2018 3 Monate	<p>Systemum GmbH & Co. KG, Braunschweig Creation and documentation of a modernisation strategy for an Oracle ADF based software system.</p> <p>Senior Consultant</p> <ul style="list-style-type: none"> • Recording the core requirements • Analysis of the existing system architecture • Design of target architecture • Draft migration strategy and • Planning prototype implementation <p>Tags Consulting, Software Architecture, Requirements Engineering</p> <p>Frameworks Oracle ADF, Java, Vaadin</p>
07/2015-10/2017 3 Monate	<p>Valtech GmbH, Düsseldorf Further development of a system in the connected car environment.</p> <p>Java Backend Developer</p> <ul style="list-style-type: none"> • Implementation in Java and Spring <p>Tags Java, Scrum, SOAP, REST Web Service, TDD, Agile Software Development, BDD, LDAP</p> <p>Frameworks Java 8, junit 4, JAX-WS, Spring, Jenkins, soapUI, Insomnia, SVN, fitNesse, MQTT</p>
04/2017-06/2017 3 Monate	<p>E.ON Business Services GmbH, Hannover Further development/migration of a system in the IAM environment</p> <p>Senior Java Developer</p> <ul style="list-style-type: none"> • Implementation in Java and Spring • Introduction of a Behaviour Driven Test System <p>Tags Java, Scrum, SOAP, REST web service, Test Driven Development, Agile software development, Source Code Management, BDD, LDAP</p>

Frameworks

Java 8, junit 4, JAX-WS, Spring, Jenkins, soapUI, subversion, jBehave

04/2015-03/2017
23 Monate

Systemum GmbH & Co. KG, Braunschweig

Implementation of a booking platform for rental vehicles

Senior JEE Developer

- Implementation in JEE (EJB3.1)
- Administration JBoss 7.2 (Redhat EAP 6.4)

Tags

Java EE, Scrum, SOAP, REST web service, Model Driven Development, Test Driven Development, Agile Software Development, Source Code Management, Multi-Tier Architecture, Kanban

Frameworks

Java EE, junit 4, JPA, Hibernate, JDBC, JAX-WS, Postgresql, JBoss 7.2, JMX, IntelliJ IDEA, gradle, Jenkins, Arquillian, soapUI, SQL, git, Atlassian Jira

4/2014

Volkswagen AG, Wolfsburg

Leading a workshop on IPv6 security in vehicles

IT Security Consultant

Tags

IPv6, Security

4/2013-12/2014
20 Monate

Volkswagen AG, Wolfsburg

Introduction of a lifecycle system for managing X.509 certificates. This system is intended to prevent the unnoticed expiry of certificates in production-related IT systems.

Product Owner (Technical Part)

- Software architecture
- QA Management
- Test management
- Interface design
- Requirements analysis
- Process design

Tags

Analysis and Design, Requirements Management, Architecture, SOAP, UML, Agile Software Development, Kanban, Multi-tier Architecture, Requirements Engineering

Frameworks

ServiceNow, Tomcat, Nexus Prime, Blueprint development Java EE, Axis2 and Jax-WS, BPMN, XMLBeans, JAX-B, XML, XSD, soapUI, Oracle 11i

11/2012 – 3/2013
5 Monate

EWE TEL GmbH, Oldenburg

Technology changeover of a consolidation platform for ordering and managing products in the telecommunications sector. To increase performance and code clearance, the database layer was converted from variable attribute/value matrices to an object hierarchy using OR mapping with JPA/Hibernate.

Senior Java Developer

- Implementation
- Test

Tags

J2EE, Scrum, Continuous Integration, Test Driven Development, Agile Software Development, Model Driven Development, Multi-Tier Architecture, Service Oriented Architecture, JIRA

Frameworks

Java EE, junit 3, Maven, JPA, Hibernate, Spring, JAX-B, JSF, Richfaces, Oracle 11g, Tomcat, IntelliJ IDEA, Selenium, GEB, Jenkins, SQL, SOAP, Subversion, Atlassian Jira

08/2012 – 10/2012
3 Monate

Versatel Deutschland GmbH, Stuttgart

Documentation of a system for the administration of lines (VPN and physical), IPv4 networks and provider and customer routers.

IT Consultant

- Documentation
- Reverse-Engineering PHP
- Reverse-Engineering postgresQL

Tags

network management, carrier, IP networks, line management, VPN, SQL, UML

07/2012 – 08/2012
2 Monate

EMDS AG, Augsburg

Implementation of an EAI interface between SAP and valuemation by Orchestra.

Developer

- Implementation in Orchestra

Tags

EAI, SOA, Web Services, SOAP, valuemation, Orchestra, Multi-Tier Architecture

Frameworks

EDMS Orchestra, Java SE, SQL, soapUI, BPMN

05/2012

PrimeForce, München

Development of an Apache httpd module, which ensures that a certain session cookie is set.

Senior C Developer

- Implementation
- Solution description

Tags

Apache httpd, C

frameworks

Apache Portable Runtime (APR)

07/2011 – 03/2012
9 Monate

Volkswagen, Wolfsburg

Development of software for online validation of X.509 certificates and user assignment.

Using this software, it is possible for third-party companies to authenticate themselves with certificates from public or Volkswagen's own trust centres. The certificate-based authentication introduces a higher security standard within the Group.

Senior Java Developer

- Coordination of software development
- Software architecture
- Implementation J2EE on IBM Websphere

- Extension Apache httpd module (mod_ssl, mod_auth_ldap)

Tags

C, Java EE, X.509, PKI Infrastructure, Identity Management, OCSP, IBM Websphere, Maven, Eclipse, IBM Rational Application Developer, SOAP, XML, XSD, RESTful Webservice, PRINCE2, LDAP

Frameworks

Java EE 1.5 (EJB 3.1, Session Beans), IBM Websphere (6 and 8) Axis2 (1.6.0, 1.6.1), Jersey (1.12), soapUI, JPA (Hibernate 4.0), JAX-WS (2.x), junit (4.9), slf4j (1.6), Vaadin (6.6), Subversion

Festanstellungen

09/2009 –
04/2011

Telefónica O2 Germany GmbH & Co. OHG, Verl

Telefónica O2Germany GmbH & Co.OHG belongs to Telefónica Europe and is part of the Spanish telecommunications group Telefónica S.A. As an integrated communications provider, the company offers DSL fixed-line telephony, mobile telephony products and Internet connectivity. Telefónica Europe has more than 56 million mobile and fixed-line customers in the UK, Ireland, the Czech Republic, Slovakia and Germany.

Senior System Analyst Billing

Projects:

- Development and conception of a wholesale billing solution for VoIP solutions
- Conception of a service interface between billing system and order management system

Achievements:

- The service interface between order management and billing aims to fully automate billing. This automation minimises manual transmissions, which both reduces the susceptibility to errors and increases performance. This results in a double improvement in quality, as the need for retrospective changes after the invoice run is minimised.

Tags

Java EE, Java SE, Message Oriented Middleware, Multi-Tier Architektur, UML, XML, XSD, Billit, Siebel, Source Code Management, Serviceorientierte Architektur

Frameworks

Apache ActiveMQ (4.x), JMS, XMLBeans (2.2+), JBoss (4.2), Java EE 1.5 (EJB3.0, Session Bean, Message Driven Beans), log4j (1.2), SQL, CVS, JDBC, eclipse, Oracle SQL Developer

Telefónica Deutschland GmbH, Verl

ab September 2009 durch Betriebsübergang zur Telefónica O2 Germany GmbH & Co. OHG geworden.

Die Telefónica Deutschland GmbH ist einer der größten IP-Carrier in Deutschland. Mit Ihren knapp 500 Mitarbeitern bietet die Telefónica Internet Service Providern und Carriern Lösungen im Bereich des DSL Access sowie VoIP-Lösungen.

10/2005 –
08/2009

02/2008 –
08/2009

System Analyst Billing

Projects:

- Development and acceptance of a billing solution for LLU (ADSL) resale products
- Design and implementation of a billing interface for LLU (ADSL) billing.

Achievements:

- Conversion of a proprietary billing solution to flexible standard software. This results in more predictable operational expenditure, as clear operational documentation is available, as well as the option of utilising external specialists.

Tags

Java EE, Java SE, Message Oriented Middleware, Serviceorientierte Architektur, Multi-Tier Architektur, ActiveMQ, SOAP, JBoss, Billit, Source Code Management, JIRA

Frameworks

Apache ActiveMQ (4.x), Axis2 (Version: SPS), JBoss (4.2), J2EE 1.5 (EJB3.0, Session Bean, Message Driven Beans), Apache log4j (1.2), jMeter, CVS

10/2005 –
02/2008

System-Entwickler Fulfillment

Projekte:

- Konzeption und Entwicklung eines multi-tier Geoinformationssystems
- Konzeption und Entwicklung einer SOA Lösung zur Rufnummern- und SIP-Provisionierung
- Entwicklung eines Backends zur Steuerung von Leistungsmerkmalen von SIP-Accounts.

Erfolge:

- Erweiterung des Rufnummernprovisionierungssystems auf SIP-Account Vergabe. Anpassung der Workflowengine und Implementierung einer asynchronen Transaktionssteuerung.
- Refactoring und Restrukturierung eines Geoinformationssystems in Frontend-, Business Logik und Persistenz-Schicht.

Tags

Java EE, Java SE, Message Oriented Middleware, Serviceorientierte Architektur, JBoss, JMX, GIS, BPMN, Source Code Management, JIRA

Frameworks

Apache ActiveMQ (4.x), Sun Java Message Queue, JMS, XMLBeans (2.2+), junit, log4j JBoss (4.2), J2EE 1.4 und 1.5 (EJB3.0, Session Bean, Message Driven Beans), Spring(2.0), Hivemind(1.1), Apache Struts Wigeogis ArcGIS, Hibernate (3.x), JPA, JPA Native Queries, JDBC, Apache log4j (1.2), Apache Struts (1.x), jBPM, eclipse, Netbeans, Ant, CVS, SQL, Oracle SQL Developer

06/2001 –
10/2005

Fox-Lightware GmbH, Bielefeld

Fox LightWare GmbH is a software company that offers a wide range of IT services specialising in databases and dynamic Internet solutions. Fox Lightware has many years of expertise in the field of intelligent and innovative IT projects. Fox Lightware has over 30 highly qualified employees.

System developers

Projects:

- Porting a database retrieval software from OS/2 to MS Windows
- Collaboration on the open source telephony solution OpenH323GK
- Design and development of a VoIP switching solution according to ITU-T standard H.323

Achievements:

- By implementing a lean, needs-based solution in the area of VoIP access, the load could be distributed from the central voice switch to a cluster, as the authentication and authorisation of the clients is handled in the software developed here, while routing continues to take place in the specialised voice switch. This solution was decommissioned at the beginning of 2011.

Tags

ITU-T H.323, C++, Unix, LDAP, X.500, Source Code Management, Model Driven Development

Frameworks

C++, CVS, Visual Source Safe, Boost, PWSlib, MingW, Qt

IOK Internet Services, Verl

IOK is a full-service Internet provider with 10 employees. The services range from dial-up and leased line connections to hosting and the development and provision of web applications.

System administrator

Tasks:

- Development of a customised webshop in Perl
- Administration of LAMP servers
- Router configuration (Cisco)
- Conception and monitoring of the backup

Successes:

- Automation of the installation of virtual web servers. This led to an improvement in quality and a reduction in manual effort, which improved productivity and customer satisfaction, as manual input errors did not lead to partial configuration, which the customer perceived as an operational error rather than a misconfiguration.

Tags

Apache httpd, mysql, Linux, Shell, Perl

04/1998 –
12/2000

1991 – 2001

Studied chemistry at the University of Bielefeld

Graduated with a diploma in physical chemistry (final grade: "good")

To finance your studies:

05/1995 – 03/1997 **Universität Bielefeld**

student assistant in the chemical warehouse.

Tasks:

- Receiving and processing orders for materials and chemicals from students and working groups.
- Filling of chemicals.

08/1992 –
12/1994

Deutsche Post AG

Temporary employment as a postman

Alongside my studies:

Since 1995:

- Self-study Linux Administration
- Unix programming in Fortran 77, Perl, C, C++

Zusatzqualifikationen

IT: **PRINCE2** (certified practitioner)
Certified Scrum Product Owner
IREB® Certified Professional for Requirements Engineering

Languages: **English** (sehr gut), **German** (native)

Other: Private Pilots Licence PPL(A)