

Projects

August 2024 - March 2025

Project: AVIS (Briefankündigung)

Contractor: Deutsche Post IT Services GmbH

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Maintenance of backend services
- Implementation of domain requirements and change requests
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Technologies:

- Java SE 21, Kotlin 2, Spring Boot, Spring Security
- Spring Data JPA, Hibernate, PostgreSQL
- Gradle, Github Actions
- Azure, Kubernetes, Helm
- Grafana, Splunk

February 2022 - July 2023

Project: Rebranding eBay Kleinanzeigen / domain migration

Contractor: Adevinta

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Design and implementation of request routing based on changing domain requirements
- Maintain and improve existing code base
- Migration of legacy services to Kubernetes microservices (e.g. SEO sitemap service)

Technologies:

- Java SE 8-17, Kotlin, Spring, Spring Boot, Spring Cloud Gateway
- Hibernate, MySQL, Kafka
- Kubernetes, Helm

March 2020 - December 2021

Projects: AVIS (Briefankündigung), GDPR (Löschkonzept)

Contractor: Deutsche Post IT Services GmbH

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Maintenance of backend services
- Design and implementation of services related to digital letter announcement (AVIS)
- Implementation of GDPR-related features
- Sender address recognition on letter envelopes (OCR)

Technologies:

- Java SE 8/11, Kotlin, Spring Boot, Spring Security
- Spring Data JPA, Hibernate, Oracle
- Groovy, Spock framework
- Tesseract OCR, OpenCV

July 2019 - December 2019

Project: Public search

Contractor: mobile.de

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Maintenance of backend services

Technologies:

- Java SE 11, Spring Boot
- Docker, Marathon

June 2017 - June 2019

Projects: Logistics, premium delivery

Contractor: Zalando SE

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Design and maintenance of carrier service framework
- Migration from legacy monolith to microservices on AWS/Kubernetes
- End-to-end and integration tests
- Redesign of document printing service
- Design and implementation of return-on-demand service for premium customers

Technologies:

- Java SE 8
- Spring Boot, Spring Cloud/Netflix OSS, OAuth2, JPA, Thymeleaf
- PostgreSQL, Cassandra, Docker, AWS, Kubernetes, Kafka
- Maven, Jenkins, WireMock, REST Assured
- JavaScript, Node.js, Express.js, React (document service frontend), TypeScript
- OpenAPI 3

April 2017 - June 2017

Project: juke.com

Contractor: Storecast GmbH

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Backend maintenance
- End-to-end and performance tests
- Microservices prototype

Technologies:

- Java SE 8
- Spring Boot, Spring Cloud/Netflix OSS, Hibernate, JPA, Oracle
- Docker, Kubernetes
- REST, HATEOAS, Spring OAuth2
- Elasticsearch, Kibana, JMeter
- Maven, Jenkins

Mar 2017

Non Disclosure Agreement

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Design and implementation of Spring Boot Rest services and business components
- Integration of external services
- Security: data encryption, identity server with social login (Keycloak + Google, Facebook)

Technologies:

- Java SE 8
- OAuth 2/OpenID Connect (Keycloak)
- Spring Boot, Hibernate, JPA, Swagger, Tomcat
- PostgreSQL
- Maven, Jenkins
- FinAPI

Aug 2015 - Feb 2017

Project: 365farmnet.com

Contractor: 365FarmNet GmbH

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Design and implementation of an IoT platform
- Processing of MQTT messages in Spark
 - Streaming
 - Storing in Cassandra
 - Geofencing
 - Movement and object relation detection
- Code generation (Vorto)
- Android app for recognition and management of BLE beacons

Technologies:

- Java SE 7 and 8
- PostgreSQL, Hibernate, JPA, Cassandra
- OSGi (Felix), BND tools
- Internet-of-Things, MQTT (RabbitMQ), Protobuf, Rest services, JSON
- ISO 11783 (ISOBUS)

- Big Data, Lambda Architecture, Spark, Spark Streaming, Mesos
- JAX-RS, JCache/Hazelcast
- Spring MVC, Spring Boot, Maven, Gradle, Docker, Jenkins, Cucumber, Swagger

Mar 2014 - Juli 2015

Project: mobile.de

Contractor: mobile.international GmbH

Position: Senior Java Consultant (freelancer)

Responsibilities:

- Maintenance and development of the backend in the commercial area
- Voice controlled Android app prototype (vehicle search)
- Dealer indexing and search based on Elasticsearch

Technologies:

- Java SE 7, 8
- Tomcat 7, MySQL, MongoDB
- Spring MVC, Spring Boot, Hibernate, JPA, Rabbit MQ
- Node.js, jQuery, Freemarker
- Graphite, Elasticsearch, Kibana, Logstash
- Maven, Jenkins, Git

Oct 2013 - Dec 2013

Project: Produktionsstraße (project line)

Contractor: KfW Bankengruppe, Berlin

Position: Java Consultant (freelancer)

Responsibilities:

- Compilation of guidelines for uniform and consistent Java development and documentation across all projects
- Extraction of software patterns from successful solutions of common design and implementation problems; coding of example projects illustrating the patterns

Technologies:

- Java EE 5
- WebSphere 7
- Spring, Spring Batch, JPA, Oracle
- Checkstyle, Maven, Jenkins, Git

Oct 2012 - Sep 2013

Project: MyVideo

Contractor: Magic Internet GmbH, Berlin

Position: Java Consultant (freelancer)

Responsibilities:

- Enhancement of premium content import and synchronization jobs (Python)
- Customized site search with Solr: schema definition, data import, deployment, tuning, monitoring, spellcheck, boosting
- Data synchronization between legacy database and Solr
- Build and Deployment of the application artifacts (DevOps)

Technologies:

- Java, Python
- PostgreSQL, PL/pgSQL, CouchDB
- Groovy, Grails, GORM
- Spring, Guava, JSF, JPA, Hibernate, Solr
- Maven, Jenkins, Rex, Tomcat
- Redis, HornetQ
- Git

Sep 2012 - Sep 2012

Project: Friendsurance

Contractor: Alecto GmbH, Berlin, Germany

Position: Java Consultant (freelancer)

Responsibilities:

- Design and implementation of a module for determining the insurance demand of a user
- Cleanup/refactoring in the back-end code: JPA mappings, caching etc.
- Build and deployment of application artifacts (DevOps)

Technologies:

- Spring, Guava, Git, Liquibase
- Hibernate, JPA, PostgreSQL, PL/pgSQL
- Maven, Jenkins, Tomcat

Aug 2011 - Aug 2012

Contractor: Zalando GmbH, Berlin, Germany

Position: Java Consultant (freelancer)

Responsibilities:

- Design and implementation of an internal search engine for the online shop
- Query classification
- Article classification based on a taxonomy of manually constructed and machine-learned concepts
- Spellcheck
- Suggestions
- Search dashboard, statistics, and tools

Technologies:

- Lucene/Solr, Maven
- Machine Learning (Weka)
- XStream, jQuery
- PostgreSQL, PL/pgSQL

Jan 2011 - Jul 2011

Project: Flirt Fair

Contractor: Digital Performance GmbH, Berlin, Germany

Position: Java Consultant (freelancer)

Responsibilities:

- Conversion / transformation of an existing code base to the newest enterprise standards based on Spring and JPA
- Overall architecture design, implementation, tests
- Infrastructure: Job scheduling, messaging, integration tests, build, CI
- Data migration

Technologies:

- JAX RS (Apache CXF), JMS (ActiveMQ), Spring, Hibernate, JPA
- Build/CI: Maven, Jenkins
- Tomcat
- PostgreSQL, PL/pgSQL

Sep 2007 - Dec 2010

Project: Smeet - 3D communication platform (www.smeet.com)

(Winner of Red Herring 100 Europe Award 2007)

Contractor: Smeet Communications GmbH, Berlin, Germany

Position: Senior Java Developer (full-time employee)

Responsibilities:

- Design and implementation of numerous modules:
 - Telephony: Java controller providing access to telephone exchange (Asterisk) for Flash clients
 - Video screen: Java controller for synchronous display of YouTube videos in Flash clients featuring scheduling and play lists
 - Billing
 - Persistent tasks for asynchronous execution
 - Generation of DTO objects and boilerplate code using an XML model description (Groovy)
 - Full text search with Apache Lucene and Solr
- Build and Continuous Integration management:
 - deployment and extension of external tools (Ant, Ivy, Hudson)
 - maintenance and adaptation to changing needs
- Performance and scalability:
 - Deployment and adaptation of external tools: Memcached, ZooKeeper, Protocol Buffers
 - Room assignment strategy: load-balanced room service assignment
 - Room cloning strategy: load-balanced room instance management
 - Analysis and optimization of database access
 - Sharding
- Quality assurance and monitoring
 - Infrastructure for unit, integration and database tests
 - Integration of software metrics into the build and CI process
 - Design and implementation of a tool for systematic server log analysis and JMX monitoring

Tools/Technologies:

- Back-end: Spring, Hibernate, Tomcat, MySQL, JMS (ActiveMQ)
- View: Spring MVC, BlazeDS

- Unit testing: JUnit, EasyMock, Spring test utilities
- Design and development: Eclipse, IDEA, Visual Paradigm (UML)

Jul 2006 - Aug 2007

Project: iTLS 2 (internal transport guidance system - transport order management, vehicle management, transport route optimization)
(Winner of innovation award for logistics 2007 by the Association of German Engineers (VDI))

Contractor: Volkswagen AG, Wolfsburg, Germany

Position: J2EE Consultant (full-time employee at T-Systems on site services GmbH)

Responsibilities: Design and implementation of the web-based control dashboard

- HTML, JavaScript/AJAX on the client side
- JSF, JSP, Spring, Hibernate, JMS, EJB, WebSphere, JBoss, Oracle on the server side
- Development of JavaScript and JSF components
- Development of tools and frameworks enabling comfortable and efficient programming model
- Requirement analysis, design and prototyping of new subsystems

Feb 2006 - Jun 2006

Project: Customer portal / Online shop

Contractor: O2 (Germany) GmbH & Co. OHG, München, Germany

Position: Senior J2EE Developer (full-time employee at FLAVIA IT-Management GmbH)

Responsibilities:

- Design and implementation of EJB and Spring components and Web Services using JBoss as application server
- Data persistence using Hibernate and Oracle
- Modularization of the project structure
- Build management using Ant/Ivy, then replaced with Maven
- Unit testing; introduction of mock-based testing using EasyMock

Nov 2005 - Jan 2006

Project: SPDB v2.0 (Research and Development Reporting Database)

Contractor: Vodafone Terenci GmbH, Ratingen, Germany

Position: J2EE Consultant (freelancer)

Responsibilities:

- Design and implementation of Spring components:
 - Notification system
 - User and project management
 - Administration tools
 - Role-based access control system
- Extension and adaptation of the domain model
- Implementation of the persistence layer using JDBC and Oracle
- Implementation and performance tuning of a diff algorithm for text version comparison

Mar 2005 - Oct 2005

Project: Jeceira (Open Source implementation of JSR 170 - Java Content Repository)

Contractor: Aparzev GmbH, Berlin, Germany

Position: Team Leader / Architect (full-time employee)

Responsibilities:

- Requirement analysis, design, task coordination, documentation
- Implementation of the base types and structures
- Persistence layer using JDBC
- XML import/export module
- Implementation of the access control
- Integration with Magnolia (open source CMS) as a use case study

Aug 2003 - Feb 2005

Project: B.Braun Marketing Server (Integration of an ERP system into an online product catalog and Internet shops)

Contractor: B.Braun Melsungen AG, Melsungen, Germany

Position: J2EE Developer / Architect (part-time employee at Aparzev GmbH)

Responsibilities:

- Time scheduled import of XML-based data from the ERP system into the online product catalog
- Data replication to distribution partner shops using XML-RPC
- Full text search with Apache Lucene
- Design and implementation of hot-deployment module system
- Tests, optimization, documentation

Feb 2002 - Apr 2003

Project: Cosmodate (Online Dating Service)

Contractor: Inlifemedia, Berlin, Germany

Position: PHP Developer (part-time employee at trimfab - internet mediagroup)

Responsibilities:

- Management of users and multimedia data
- Profile matching
- Online payment
- Chat system

Mar 2001 - Jan 2002

Project: trimCMS

Contractor: trimfab - internet mediagroup, Berlin, Germany

Position: PHP Developer (internship, then part-time employee)

Responsibilities:

- Management of content and templates in MySQL
- User management and access control
- Workflow engine
- Time controlled content activation
- Online help

Aug 2000 - Feb 2001

Project: Relaunch of official web sites of some German soccer clubs

(Hertha BSC Berlin, HSV Hamburg, FC Nürnberg, VfL Wolfsburg)

Contractor: Altus Media GmbH, Berlin, Germany

Position: PHP Developer (internship)

Responsibilities: Implementation of parts of a Live Ticker CMS

- Content persistence in MySQL
- User and role management
- Workflow

10.05.2025