



# Sven Hohlfeld

## IT Consultant & Software Engineer

### Kontakt

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### About me

With a sound education in the economic environment and a degree in software engineering, I have worked for various companies, including banks, retail and e-commerce companies, companies from the automotive sector, medical companies and startups.

My expertise lies in the successful implementation of software projects. I was part of a founding team of a successful startup that was later bought by Atlassian. In addition, as an IT consultant, I have accompanied projects with teams of different sizes from two to over 800 participants in different positions. These projects included app launches, further developments of banking applications in the foreign, treasury and securities sectors, migrations of core banking systems and the introduction of agile processes.

Some of my projects were digital transformation projects. These included, for example, the establishment of a digital communication platform between independent federal authorities for the exchange of social security data, the re-establishment of an independent spin-off through the transformation of an investment banking financing product at a state bank and the comprehensive transformation of a previously undigitalized service provider that carries out billing for clinics and chief physicians.

As part of my activities, products were developed that are used by millions of people. These include, among other things, components for online banking of one of the largest German financial service providers as well as services for the online purchase of tires or the purchase of Scandinavian residential design objects.

In addition to the pure software engineering activities, I have also taken on project management, sub-project management and interim roles as a technical product owner.

### Ausbildung

- 1994:** Abitur (High-School/ College)
- 1998:** Trainee and study Program with ending with title „Sparkassen-Business-economist“
- 2004:** Diplom (Master) in Business informatics. (Applied Sciences)

### Sprachen

**Deutsch:**  
Muttersprache  
**Englisch:**  
Fließend

### Social Profiles

**LinkedIn:** [linkedin.com/in/sven42](https://www.linkedin.com/in/sven42)  
**Xing:** [xing.com/profile/Sven\\_Hohlfeld](https://www.xing.com/profile/Sven_Hohlfeld)

### Skills

Java, Go, Kotlin, Dart, Flutter, Typescript, Javascript, webassembly/wasm, Linux, Bash AWS-S3, AWS-Lambda, AWS-API-Gateway, AWS-Cloudwatch, AWS-SQS, AWS-SES, AWS-RDS, Docker, Kubernetes (k8s/k3s), Gitlab, Gitlab-CI/CD, Github, Github-Actions, UML, BPMN

### Frameworks

React, Angular, Svelte, Spring, Spring Boot, Quarkus, Wildfly, Micronaut, Hibernate, JPA, EJB, Jee, JAX-WS

### Tools

Keycloak, Tomcat, Jboss, Kafka, Memphis, Grafana, Prometheus, Playwright, Selenium, Puppeteer, Cypress

### Additional technologies

Material-UI (MUI), Daisy-UI, Tailwind, Figma, Framer, Miro, Canva, SQL, Postgres, Mariadb, Mysql, Oracle, DB2, Photoshop, AWS, Google Cloud (gcloud), Jira, Rest, GraphQL, Json, Protobuf, GRPC

# Recent projects

## Key results

### Full-Stack Developer - CPIL Master Data Management (Bayer AG)

Support in stabilizing the backend (Go/Golang programming language): fixing bugs, changing the GraphQL API

Architecture/Refactoring: I helped complete the extraction of larger software parts into separate modules due to organizational changes.

Coaching: I helped the international team with their testing skills and demonstrated how unit tests can also be introduced in Legacy Code.

Support of the product owner in shifting/ transforming the existing business value into a new product vision: architecture, data sources, tech stack.

Architecture support: I started & ran several POC/ investigation tickets that led to architectural decision records (ADRs). For example: alternative database types, low-code tools.

Backend: I created a prototype to import (semi-)publicly available hierarchical data (taxonomies) into a new database via various APIs and synchronize it with already available data.

Frontend: After all frontend developers (React) left the project, I helped with debugging and providing new features.

## General information

**Period 10.2022 - 04.2023**

### Mode of implementation

Remote

### Description

Stammdaten-Management für das Crop Protection Innovation Lab. Digital und Smart farming. (project language: english).

### Techstack

Go/Golang, AWS: (Lambda, API-Gateway, S3, Appsync, Dynamo-DB, RDS, Neptune), Material-UI (MUI), Gitlab, Gitlab-CI/CD, Terraform, Azure-Devops, React, GraphQL, Postgres, Pocketbase, Supabase.

# Recent projects

## Key results

### **Full-Stack Developer/ Technical Product-Owner/ Domain-Specialist (unimed Abrechnungsservice für Kliniken und Chefärzte GmbH)**

Focus: The first module was completed on time and on budget under increased time pressure.

Team performance: I helped introduce Gitlab CI/CD instead of AWS Code Commit in the team.

Architecture: I have emphatically supported and promoted the switch to containers instead of pure AWS services (such as Lambda).

Leading: I took a leading role in the AFM team both as a developer and as a technical product owner. Ticket requirements, requirements engineering, support PO with requirements, moderation of review and planning meetings.

Implementation: I took responsibility for the process design and implementation for API-based, paper- and scan-based processes with the result that up to 300,000 pages a day or 5,000,000 pages per month could be processed 'on premise' (from zero to production).

Focus: I helped the team to push ahead with the elimination of technical debt during several sprints.

Implementation of different lambdas.

Implementation of various React components.

Coaching: Junit-Tests/Dependency-Injection/EBI.

Coaching: Workshop "Introduction to Requirements Engineering".

Focus: Establishment of code reviews.

Business details: Data model corrections & adjustments, as well as transformation of the so-called status concept.

Process: Standardization of ticket descriptions.

Leading: Restructuring of the agile development process.

Leading: Introduction of DB Migrations.

Leading: Stabilization of the customer API (Restful & HL7).

## General information

**Period 10.2020 - 09.2022**

### **Mode of implementation**

Mostly remote

### **Description**

Digital transformation project of a service provider previously excluded from digitization for the billing of clinics and chief physicians.

### **Techstack**

Typescript, AWS: (Lambda, Api-Gateway, S3, Cloudwatch-Events/ Cloudwatch Event-Bridge), Material-UI (MUI), Gitlab, Gitlab-CI/CD, Jira, CDK, React, Postgres, Grafana, Prometheus, Loki, Kubernetes (K8S/K3S), Miro, Minio, Keycloak.

# Recent projects

## Key results

### Full-Stack Developer - Target2 (Finanzinformatik GmbH & Co. KG)

I presented agile working methods (team of 80+ people) and implemented them in my area

I have introduced automated tests and implemented the necessary adjustments in the existing code.

I have clarified unclear requirements and transferred them to the relevant documents for the technically responsible persons.

I have implemented prototypical implementations of the new Swift messages so that the old messages are compatible with the new ones.

Extensive refactoring of "copy and paste driven application development" within a very old framework towards - suitable architectural patterns - in compliance with the underlying framework: introduction of EBI at the process boundary (hexagonal architectural idiom) and thus achievement of testability and architectural structure in the first place.

Introduction of automated test cases and massive increase in test coverage.

Introduction of an orderly procedure to derive technical specifications from the so-called technical concept into a ticket-based backlog (Jira).

Coordination of the introduction of the aforementioned procedure as well as team meetings/workshop - do the persuasion work.

Coordination of the content structure of the tickets.

Introduction of backlog maintenance and ticket meetings.

Technical implementation/implementation of the technical concept (development/realization), where possible.

Defining test cases in cooperation with the people responsible.

## General information

**Period 10.2019 - 09.2020**

### Mode of implementation

Hybrid

### Description

Implementation of the Target2 requirements as part of the further development of SWIFT (MX/MT), integration into existing (inter) banking systems.

### Techstack

Java, Jee, OSPlus, Jira, DB2, Javascript, Microfocus (HP) Quality Center.

# Recent projects

## Key results

### **Full-Stack Developer - structured financing (finpair.de - 100% subsidiary of Nord/LB - Norddeutsche Landesbank Girozentrale)**

Continuation of full stack development (see preliminary project "Developer/ Startup Consultant").

### **Full Stack Developer/ Startup Consultant (Nord/LB - Norddeutsche Landesbank Girozentrale)**

Planning and design of the process to be digitized with stakeholders of the analog process.

Implementation of the MVP with jboss wildfly-swarm and Angular NG (4+).

Support, planning and reinforcement of the spin-off as an independent (subsidiary) company.

Mediation and coordination of third party deliverables (design artefacts, HTML implementation).

Integration of third-party systems/ interfaces/ APIs such as hubspot, mailgun and idnow.

## General information

**Period 01.2019 - 12.2019**

### **Mode of implementation**

Hybrid

### **Description**

After the spin-off of a digital trading platform for promissory note loans (structured financing) as a startup as part of the innovation laboratory of the Landesbank: Further support in the startup finpair.de - financing from 50,000.0000 EUR volume.

### **Techstack**

Gitlab, Gitlab-CI/CD, Docker, IntelliJ, Angular, Javascript, Kotlin, Java, Jee, JAX-RS, JPA, Kubernetes (K8S), Jasmine, Karma, Selenium, Keycloak, Postgres, Google cloud (gcloud), Minio.

**Period 01.2018 - 12.2018**

### **Mode of implementation**

Hybrid

### **Description**

NORD/LB iLAB (Innovation Lab)  
Support in the spin-off of a digital trading platform for structured financing (debt note loan - SSD) as a startup as part of the innovation laboratory of the Landesbank. Financing from 50,000.0000 EUR volume.

### **Techstack**

Gitlab, Gitlab-CI/CD, Docker, IntelliJ, Angular, Javascript, Kotlin, Java, Jee, JAX-RS, Kubernetes (K8S), Jasmine, Karma, Selenium, Keycloak, Postgres, Google cloud (gcloud), Minio.

# Additional/ Older Projects

## Description

### Founder CHCKR - COVID MELDEPFLICHT DIGITAL (chckr.de)

Development of a solution for guest registration in restaurants and pubs. Through a very simple digital recording of visitor data by scanning a QR code via smartphone, it is possible to trace reported guests including their notification in the event of a corona case. The entire system is realized as a Progressive Web App and therefore does not require installation from an app store.

The full source code is published at: <https://github.com/damonkeys/covid-checkin>.

### Founder (monkeycash.io)

Prototype - mobile payment system (monkeycash.io) for small and very small money transactions.

Development of a first prototype for a mobile payment system based on QR codes.

The background idea was processing payments over small amounts at low frequency at high speed. The entire system is realized as a Progressive WebApp and therefore does not require installation from an app store.

### Developer at NEO/ Onlinebanking Prozesse (Finanzinformatik GmbH & Co.KG)

Implementation of the customer banking process to manage online banking with Javascript and Java. Use of eclipse and Webstorm and use of the OSPlus Neo Framework. Programming with the help of central components, services and services.

- Central printing services and DynS-based HOST interfaces
- Banking. Banking. Concrete implementation of technical processes:
- Edit Online Banking (customer online/ stationary)
- Create online banking contracts (customer online/ stationary)
- Manage Exemptions/ NV Certificates (customer online/ stationary)
- DWP depot opening
- Investment configurator
- Workflow design

## General information

**Period 08.2020 - 01.2023**

### Mode of implementation

Remote

### Techstack

Go/Golang, React, Javascript, MariaDB, PWA, Framework7, Asana.

**Period 01.2018 - 12.2020**

### Mode of implementation

Remote

### Techstack

Go/Golang, React, Javascript, MariaDB, PWA, Framework7, Asana.

**Period 08.2016 - 12.2017**

### Mode of implementation

Remote

### Techstack

Eclipse, Stapes.js, Guice, OSPlus (neo), Java, Jee, Javascript, GPS.

# Additional/ Older Projects

## Description

### Lead Developer/ Senior Developer Federal Authority (Customs ITZBund)

Connection of two federal authorities (Customs and Employment Agency) via soap-based interface designed after business requirements.

Reimplementation of existing specialist applications with an extended range of functions and newer technical solutions, partly by means of reverse engineering. Implementation a HTML5 web interface using a lightweight JSF variant.

- Inter-federal-authority communication
- Software design
- Implementation of SOAP web service interfaces
- Build management
- Release management
- Implementation of a lightweight JSF variant
- Implementation of a Java library for the technical encapsulation of the federal-authority interface
- Infrastructure planning and coordination of multi-level deployment
- Coordination of firewall configuration
- Test support
- Implementation of automatic click tests
- UI guidelines coordination
- Estimation of project effort
- Preparation for project planning
- Requirements management - risk management
- Requirements management - estimation and planning
- Project support in the field of infrastructure: networks, Websphere systems, interfaces
- Introduction of devops procedures (checklists, open task lists) between production and development
- HTML frontend

## General information

**Period 04.2015 - 07.2016**

### Mode of implementation

Onsite

### Techstack

Eclipse, Git, Tomcat, Jee, Java, JAX-RS, Oracle, Doors, Selenium.



# Additional/ Older Projects

## Description

### Interims IT Manager Business Development (connox.de)

Planning, control and product development of the IT department.

- Introduction of agile processes
- Introduction of agile project management
- Introduction of agile project planning
- Product development B2B pricing tool (market price observing) as a "tag team"
- Support with annual IT project planning
- Planning and preparation of outsourcing of IT projects (Nearshoring)
- Outsourcing of partial functions to external service providers (newsletter)
- Support of the management in recruiting/personnel planning
- Preparation for the introduction of structured requirements management.
- Introduction of the mobile sales channel for IOS and Android (app launch)
- Technical lead and process coordination for internationalization (EU/ non-EU, DHL, customs, forwarding) project
- Coordination of IT requirements

## General information

**Period 03.2015 - 06.2016**

### Mode of implementation

Onsite

### Techstack

PHP, XML, XSLT, Youtrack, Mailgun, Mailchimp, Wrike.



# Additional/ Older Projects

## Description

### Lead-Developer/ Senior Developer (Customs ITZBund)

Connection of second federal authorities (customs and DRV) via a professional, Soap-based interface in the federal network: DOI. Implementation in comprehensive Websphere cluster environment with application server, Webseal, Oracle database, Rational Application Developer as well as Rational Doors as requirements tool.

- Inter-federal authority communication
- Software design
- Definition of SOAP web service interfaces
- Definition of security standards
- Implementation of SOAP web service interfaces
- Design and implementation of an HTML5-based test Workbench based on Junit regression tests
- Infrastructure planning and coordination build management and release management
- Multi-level deployment test support
- Test management
- Test programming
- Load test and edge test case preparation and execution
- Requirements management - change requests
- Requirements management - risk management
- Requirements management - estimation and planning
- Requirements management - Traceability
- Project support in the field of infrastructure: networks, Websphere systems, interfaces

## General information

**Period 11.2013 - 07.2015**

### Mode of implementation

Onsite

### Techstack

Eclipse, Git, Websphere, Jee, Java, Oracle, Doors, JAX-WS, StAX.

# Additional/ Older Projects

## Description

### **Business Analyst/ UML Modeller (Volkswagen Financial Services)**

Object-oriented modeling of leasing-relevant components in highly distributed SAP and mainframe system landscapes  
In the specialist procedure leasing. Implementation of technical fine concepts in UML with the help of and within the framework of software architecture patterns, e.g. Entity Control Boundary (ECB) for component separation and Publish & Subscribe for system encapsulation.

- Modeling of the software components in direct cooperation with the department and the developers
- Onboarding of new employees with the complex software development process and the modeling guidelines
- Support and implementation of quality gates during the creation and addition of the technical fine concepts and modeling
- Estimation of expenses of change requests
- Dialogue modeling in UML

### **Project management (Fiducia GAD AG - vormalis GAD)**

Implementation of the technical concept for the highly automated processing of KWG §18 compliant document requirement for German credit law (KWG §18) ready Document request in the credit procedure (see [related project in period 07/2010 until 10/2010](#)).

- Creation and maintenance of project plan
- Estimation and control of expenses
- Planning and control of work packages
- Status and general reporting to the client
- Business related Contact person for the planning of project staffing
- Implementation of internal QA measures
- Implementation of QA measures of the contractor (for example: procedure model and framework compliance)
- Planning and creation of test cases
- Processing of change requests as well as their effort estimate and appropriate offer formulation

## General information

**Period 12.2011 - 03.2013**

### **Mode of implementation**

Onsite

### **Techstack**

Enterprise Architect (Sparxsystems), SAP, Mainframe, Oracle.

**Period 10.2010 - 12.2011**

### **Mode of implementation**

Hybrid

### **Techstack**

Rational Software Architect, ClearCase, ClearQuest, DB2, Cobol, Java, Microfocus Quality Center, Microfocus Testdirector.

# Additional/ Older Projects

## Description

### Managing Partner (tape.io GmbH)

Managing founder and shareholder in the cloud/technology startup doctape. Asynchronous programming (nodejs), single language architecture (JavaScript), no-SQL database (CouchDB), hybrid mobile apps (Appcelerator, HTML5, IOS, Android).

- Management activities
- Business development
- Roadmap management
- Press and publicity measures
- Employee management
- KPI measurement (K), detection und analysis
- Test management

### Business-analyst/ Conceptualizer, Technical concept (Fiducia GAD AG - earlier: GAD)

Creation of the technical concept. Implemented for the highly automated processing of a KWG §18 (germany credit law) Compliant document request in the credit process (see [related Project in period 10/2010 - 12/2011](#)). The application is integrated into the core banking system bank21 and has a high proportion of highly automated (mass) dark processing. It determines the need for documents to be requested and controls the mass dispatch of the cover letters at certain times.

- Accompaniment and moderation of requirement workshops
- Creation of the technical concept in close coordination with the customer
- Business process modeling (BPMN)
- Use case modelling
- Modeling of the technical data model
- Professional service modeling (service cut)
- Modeling of the domain class model
- Design of desk tests

## General information

### Period 10.2010 - 11.2013

### Mode of implementation

Onsite

### Techstack

Nodejs, CouchDB, Riverbed, S3, AWS, Gitlab.

### Period 07.2010 - 10.2010

### Mode of implementation

Hybrid

### Techstack

Rational Software Architect, Bizagi Business Process Modeller.

# Additional/ Older Projects

## Description

### Senior developer (Nord/LB Nordeutsche Landesbank Girozentrale)

Implementation of several banking domain specific procedures:

- Mavis: Design and implementation of the Mavis web application to control the securities business of Nord/LB (Depot A) as part of the host front-end replacement due to the Landesbanken migration to OSPlus. Technical support for the introduction of component tests by means of Junit.
- ADD-Base: Design, implementation, control and monitoring of the subsequent integration test of the sub-application ADD condition fees procedure as part of the BaseOne host front-end replacement due to the OSPlus migration of Nord/LB.
- FWV-Base: Partial conception, design and implementation of the BaseOne frontend for the existing host application "foreign currency procedure", which serves the management of foreign currency accounts and clients (savings banks).

### Senior Developer (Nord/LB Informationstechnologie GmbH)

Implementation of a domain specific banking procedure

- DU/Udefix, Value at Risk III: Design and implementation of a plug-in module for the LDU application for liquidity control in the foreign exchange business of Nord/LB (bank control)

## General information

**Period 11.2008 - 06.2010**

### Mode of implementation

Onsite

### Techstack

BaseOne, EJB, JSF, JBOSS, Tomcat, JEE, Java Server Faces, Tobago, Eclipse, DB2, Hostmigration, Clearcase, Clearquest, Junit, S2Skom.

**Period 06.2008 - 11.2008**

### Mode of implementation

Onsite

### Techstack

Swing, AXIS, Eclipse, IBMapper, Sybase, Tomcat, Java, Webservices, JMS.

# Additional/ Older Projects

## Description

### Senior Developer (Nord/LB Informationstechnologie GmbH)

Implementation of a domain specific banking procedure

- Global-Cash Reengineering: Implementation of a subsystem to replace the host frontend to manage account statements for foreign currency accounts and to display SWIFT messages.
- ADD/Base Reengineering: Implementation of a subsystem to replace the host front end for managing bookings on foreign currency accounts using the BaseOne framework using DB2 and S2Skom.

### Business-analyst, architect, project lead (CS Consulting AG - now Cap Gemini)

Project: GOAL - Requirements analysis, specification and development of a procedure model for SOA projects

- Design of patterns/ architectural patterns in the SOA environment
- Use of web services
- Definition off services
- Reference-Implementation
- Documentation

### Senior developer/ technical Project lead (SGH AG)

Automated invoice verification of supplier invoices (Accounts receivable audit).

- Definition of the target processes with the customer
- Design and specification of process models and activity diagrams
- J2EE design and implementation of a multi-tenant integration solution for automatic mass processing of commercial invoices at invoice receipt
- Agile scrum based development

## General information

**Period 08.2007 - 05.2008**

### Mode of implementation

Onsite

### Techstack

BaseOne, EJB, JSF, JBOSS, Tomcat, JEE, Java Server Faces, Tobago, Eclipse, DB2, Hostmigration, Clearcase, Clearquest, Junit, Swing, AXIS, Eclipse, IBMapper, Sybase, Tomcat, Java, Webservices, JMS.

**Period 07.2007 - 08.2007**

### Mode of implementation

Onsite

### Techstack

MagicDraw, Tomcat, MySQL, Eclipse, JUDE, Extjs, Intalio BPM, Spring-WS.

**Period 04.2006 - 06.2007**

### Mode of implementation

Onsite

### Techstack

UseCase- und Aktivitätsdiagramme, Tomcat, JBOSS, Eclipse, Junit, MyEclipse, MySQL, Deblan, SCO, Inubit BPM/Workflow Server, JQuery, Extjs, Hivemind, Hibernate, Castor, OCR, REST, Scrum.

# Additional/ Older Projects

## Description

### Senior developer (Pelion XII AG)

Expansion of the B2B shop of a tire wholesaler

- Analysis, design, implementation and production of the largest web-based B2B shop for tires in Germany (reifen.com)
- Implementation of front- and backend components as well as integration into inventory systems and third-party systems

### Senior developer (Pelion XII AG)

Creation of a web app to carry out centralized settlement processes

- Maintenance and further development (including quotation and sales support) of the multi-client solution for managing a bank's del credere business and for integrating del credere-relevant changes into the central settlement interface
- Agile scrum based development

### Working student/ Technical project manage (I-CON GmbH)

PoC for automatic credit monitoring in bulk business (overdraft facility/ current account)

- Analysis, design and implementation of a scoring system based on mass credit data from the GAD environment (BB3)
- Early identification of credit risks in the current account portfolio

## General information

**Period 04.2006 - 06.2007**

### Mode of implementation

Onsite

### Techstack

Eclipse, MySQL-Replizierung (Cluster), Tomcat cluster, MyEclipse, Hibernate, Velocity, JSP, XMLC, Tapestry, Latex, Linux, Debian.

**Period 08.2004 - 03.2006**

### Mode of implementation

Onsite

### Techstack

Debian, MySQL (Repliziert), Eclipse, MyEclipse, JBOSS, Tomcat, Scrum, castor, hibernate, hivemind, junit, tapestry, Struts, xmlc, Linux, Debian.

**Period 01.2003 - 06.2003**

### Mode of implementation

Onsite

### Techstack

Basel 2, Scoring JBOSS, Enterprise Java Beans (EJB), Jfreechart, Lotus Notes, BB3 Import, Castor.

# Additional/ Older Projects

## Description

### Diploma student/ diploma intern (I-CON GmbH)

Preparation of the thesis

- Title "Evaluation of EAI strategies and their prototypical implementation using IBM Websphere Portal Server"

### Freelancer (Obi@Otto (Joint Venture off Otto Versand and Obi Baumarkt))

Implementation of several IT projects

- Agile planning and implementation of the intranet: technical management and project management.
- Planning and implementation of a mini-OLAP on web analysis: Requirements Engineering, design, analysis and implementation of a database-driven application to evaluate the user data of the then largest online store for do-it-yourself supplies on the German Internet.

### Student (Leuphana Universität - then Fachhochschule Nordostniedersachsen)

Implementation of various student IT projects

- Self-replicating, distributive, alternate programs via P2P (peer-to-peer).
- Rating of real estate via scoring mechanisms
- VIP Student "Email Call Center" - Inbound Marketing for Students
- Internship in Datawarehouse/ Catalog Marketing at Otto Versand

## General information

**Period 01.2003 - 06.2003**

### Mode of implementation

Onsite

### Techstack

Domino 7 Portal Integration, Java / Domino, Portletentwicklung, Websphere Portal, Integration, Messaging.

**Period 01.2003 - 06.2003**

### Mode of implementation

Onsite

### Techstack

Open Source Portal Jetspeed, Intranet, Kommunikation, Content Management, Tomcat, MS-Access, Xalan, Xerces, J2EE, JSR 168, ETL Process, Landmarks, Web-Analytics, Benchmarking, Excel Olap, Visual Basic for Applications.

**Period 01.2000 - 12.2003**

### Mode of implementation

Onsite

### Techstack

Java, MySQL, JEE, JXTA, MSSQL, PHP, XML.



# Additional/ Older Projects

## Description

### Working student (ricardo.de)

Implementation of several IT projects

- Maintain multichannel database for auctions (CRM)
- Create landingpages
- Implement product features for core business (auction platform)
- Implementation of a price calculator
- Creation of a portal for reverse auctions

## General information

**Period 01.1999 - 01.2002**

### Mode of implementation

Onsite

### Techstack

PHP, Apache, Java, MySQL, Javascript.