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HELLO!

FULLSTACK SOFTWARE DEVELOPER+



KEY FACTS

DELIVERING SOFTWARE SINCE 2009

KEY CONSULTING FIELDS Software Development

Agile Projects and Processes Microservice Architecture

LANGUAGES German (mother tongue), English (fluent)

FAVORITE ROLES

FULLSTACK DEVELOPER Requirements engineering

Implementation Test automation Infrastructure

TECH LEAD Hiring process setup and interviews

Upskilling junior colleagues on the job Driving architecture improvements

TRANSLATOR Align business needs and technical constraints

BUSINESS-TECH Develop common language

CORE TECH STACK

FRONTEND Typescript/Vue, Javascript/Angular

TEST AUTOMATION Cypress, Playwright, Selenium, Geb

BACKEND Java/Spring, TypeScript/NestJs

TEST AUTOMATION Spock, Jest

INFRASTRUCTURE AWS, Azure, Heroku, Docker

AUTOMATION TOOLS Terraform, Bash

EXTENSIVE TECH STACK

BACKEND FRAMEWORKS NestJS, Spring Framework, Spring Boot, Spring Data JPA, Spring Data REST, Spring

Security, Spring Web Services, Spring REST, Hibernate, JAX-RS, JSON, JAX-WS, Swagger, Tomcat, Spring Security, Spring Cloud, Spring Sleuth, Netflix Hystrix, Netflix Ribbon, Netflix Zuul, Netflix Sleuth, Apache Solr, Apache Zookeeper, Spring Kafka, Spring Cloud Stream, Apache Camel, Apache CXF, Netflix Ribbon, Netflix Hystrix, Netflix Sleuth, Netflix Zuul, Apache Lucene, Apache Solr, Apache Zookeeper, Togglz, Spock, JUnit, Mockito,

DbUnit, REST-asured, Gatling, Selenium, JMeter, PiTest

FRONTEND FRAMEWORKS Vue, Nuxt, Vuetify, Angular, Angular material, Bootstrap, Ionic, react.js, handlebars.js,

postal.js, npm, Grunt, Webpack, Jasmine, Galen, Geb, Thymeleaf, Swing, Eclipse RCP (swt), Apache Struts 2, servlet api, java server pages (jsp), Google tag manager,

Usercentrics, Google analytics, Adobe analytics, Contentful

CLOUD AWS, Azure, Heroku, Google Compute

INFRASTRUCTURE Tomcat, Jetty, Apache HTTP, Undertow, NGINGX, Docker, Vagrant, Consul, Swarm,

Google Compute, Wildfly, Kubernates, Akamai, Kibana, Elastic Search, Filebeat, Logstash,

Prometheus, Grafana

NOSQL DATABASES MongoDB, Elastic, Apache Solr, Neo4J, Redis, Cloud Firestore

SQL DATABASES PostgreSQL, MySQL, Azure SQL, Impala, H2, HSQLDB

MESSAGING Apache Kafka, RabbitMQ, IBM MQSeries, Apache ActiveMQ, Bull (Node/Redis)

BUILD & CI Github Actions, Azure Devops, Gitlab, Maven, Gradle, npm, grunt, webpack, Ansible,

Vagrant, Docker, Bamboo, Sonar, JRebel, CVS, Subversion, Git, Stash, Sonar

METHODICAL KNOWLEDGE Test Driven Development (TDD), Behavior Driven Development (BDD) Objektorientierte

Programmierung (OOP), Aspect Oriented Programming (AOP), Paper Prototyping, Software Design Pattern, Consumer Driven Contracts, Datenmodellierung,

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Datenbankdesign, Continuous Integration, Continuous Delivery Scrum, Kanban, Extreme Programming (XP), Pair-Programming

COLLABORATION TOOLS JIRA, Confluence, Redmine, Miro, Adobe XD, Figma

OPERATING SYSTEMS MacOS, MS Windows, Linux

PROCESS MODELS

IDEs Jetbrains Toolbox (Intellij), Visual Studio Code

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PROJECT HISTORY

01/2022 - 06/2022 // Wallbox Online Retail

INDUSTRY E-Commerce

CHALLENGE "Build an online shop to sell and rent charge points (wallboxes) for electric vehicles. Build IOT

utilities to manage wallbox stock and flash firmware updates in the warehouse and in the

field."

ROLE Fullstack Software Developer

* Evaluation of off-the-shelf solutions (such as Shopify)

* Custom-build online shop due to the lack of rental features in off-the-shelf-solutions

* Implement checkout process, payment and fulfilmment* Setup infrastructure to build, test and run on from scratch

* Track customer journey with on-page tracking and customer satisfaction polls

* Build a web interface to controll wallboxes in the field via Open Charge Point Protocol

(OCPP)

* Build and print a 3D model to facilitate firmware updates on site via ethernet

TECH STACK

// BACKEND Typescript, NestJs, Jest, OCPP, Websocket, REST

// FRONTEND VueJs, Nuxt, Vuetify, Cypress, Playwright, Typescript

// INFRASTRUCTURE Netlify, Heroku, Docker, MongoDB, Redis, Github, Git, Sendcloud, Sendgrid, Stripe, Autho,

FreeCad, Typeform

// COLLABORATION Scrum, Jira, Confluence, Miro, Figma

01/2021 - 12/2021 // Electricity Provider Startup

INDUSTRY Energy Sector

CHALLENGE "Sell electricity tariffs as a bundle add-on product for a photovoltaic system rental company.

The whole process should seamlessly integrate with the core business whilst being as loosely

coupled to the existing system as possible."

ROLE Tech Lead

* Hiring process setup and interviews

* Evaluation of Powercloud as an energy ERP candidate

* Integration into the mother company's salesforce processes

* Integration of the electricity fulfillment partner

* Design and deliver customer facing web forms to collect necessary data

* Azure based infrastructure setup

TECH STACK

// BACKEND Java 11, Spring Boot, Typescript, NestJs, Jest, REST

// FRONTEND VueJs, Nuxt, Vuetify, Cypress, Playwright, Typescript

// INFRASTRUCTURE Salesforce, Docker, MongoDB, Redis, Braze

// COLLABORATION Kanban, Jira, Confluence, Miro

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11/2019 - 01/2021 // Investment Management Platform

INDUSTRY Financial Services

CHALLENGE "Rebuilt the Access-based asset management software to support complex reporting

scenarios, fine-grained auditability and improved user experience."

ROLE Tech Lead

* Enabling the young, highly motivated and fully committed team in architecture decisions

* Upskilling individual team members

* Reverse Engineering of the original Access based application

* Partial reimplementation of most problematic parts

* Continuous migration between new and old system leveraging the event-based approach

of the redesign.

* Setup of a proper dev environment, allowing for system test automation in isolation of the

production environment

TECH STACK

// BACKEND Java 11, Spring Boot 2, Axon, Oracle, Postgres, Hibernate, JPA

// FRONTEND VueJs, Selenium, SCSS, Typescript

// INFRASTRUCTURE Maven, Git, Gitlab, Docker, Kibana, Elastic Search, Filebeat, Grafana, JIRA, Confluence

// COLLABORATION Scrum, Jira, Confluence, Adobe XD

02/2019 - 10/2019 // Copyright Collecting Society Data Migration

INDUSTRY Copyright Collecting Society

CHALLENGE "Reverse engineer the legacy database model with decades of history and prepare and

develop a migration strategy to the new schema."

ROLE Fullstack Software Developer

* Development of a UI to visualize and analyze the data to be migrated

* Analysis and documentation of the old schemas data structures and specifics

* Iterative development of the actual migration logic in close connection with the product

department

* Performance optimization of the actual migration process to enable large scale migration

runs

* Building up and spreading knowledge on Kubernetes inside the team and the organization

TECH STACK

// BACKEND Java 8, Spring Boot 2, Oracle, Postgres, Cucumber, Querydsl, Hibernate, JPA

// FRONTEND Angular 7, Angular Material, Cypress, SCSS, Typescript

// INFRASTRUCTURE Maven, Git, Gitlab, Jenkins 2, Docker, TIBCO EMS, Kubernetes, Helm, Kibana, Elastic Search,

Filebeat, Prometheus, Grafana, JIRA, Confluence, Tomcat

// COLLABORATION Scrum, Jira, Confluence

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04/2018 - 12/2018 // Recruitment ERP

INDUSTRY Personal Services Provider

CHALLENGE "Rebuilt the existing ERP system from the ground up ensuring future expandability of the

system as a whole, in order to keep the client at the forefront of future industry specific

innovations."

ROLE Fullstack Software Developer

* Development of domain specific microservices

* Optimization of the in-house search and matching engine with Apache Solr

* E2E-Tests with Selenium and Cypress

* Frontend development with Angular 6 and Angular Material Components

* Bootstrapping a dockerized CI/CD environment

* Installation and configuration of a monitoring system using ELK and Grafana/Prometheus

TECH STACK

// BACKEND Java 8, Spring Boot 2, Keycloak, Postgres, RabbitMQ

// FRONTEND Angular 6, Angular Material, Cypress, Selenium, SCSS, TypeScript

// INFRASTRUCTURE Maven, Git, Jenkins 2, Docker, Kibana, Elastic Search, Filebeat, Prometheus, Grafana, JIRA,

Confluence, Tomcat, Microservices, DDD

// COLLABORATION Scrum, Jira, Confluence

01/2018 - 03/2018 // Business Travel Management Portal

INDUSTRY Financial Services

CHALLENGE "Facilitate the client's strategy to map previously in-house designed business logic using

COTS software. Then help to shift the client's in-house design resources to focus on redeveloping market differentiating solutions based on an event based microservice

architecture."

ROLE Backend Developer

* Event based integration of numerous Commercial off-the-shelf (COTS) components via

катка.

* Microservice development to drive the in-house user management

* Automating service deployment to the MS Azure Cloud

* Provisioning and extending the authentication service (Keycloak)

* Requirement engineering based on the legacy system and user feedback

* Supporting the operations team in stabilizing the in-house Kafka setup

TECH STACK

// BACKEND Java 8, Spring Boot, Groovy, Spring Cloud Stream, Spock

// INFRASTRUCTURE Azure, Keycloak, Kafka
// COLLABORATION Scrum, Jira, Confluence

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07/2017 - 12/2017 // Online car insurance portal

INDUSTRY Insurance

CHALLENGE "Deliver an MVP for a direct B2C insurance as a test balloon for a large B2B insurance group.

The MVP must facilitate the entire car insurance application process and pass on the

collected data to the company's existing internal backend system."

ROLE Frontend Developer

* Portal frontend development with Angular 5 and Angular Material Components

* Implementation of an insurance rate calculator widget to be embedded into other (non-

angular) host websites

* Supporting backend development for existing Spring Boot Web Services

* Bootstrapping and maintenance of a continuous integration pipeline for backend and

frontend components

* Developing an app version of the portal with ionic

* Integrating a headless CMS (contentful)

TECH STACK

// BACKEND Java 8, Groovy, Spring Web Services, Tomcat, Postgres, Netflix Hystrix, FF4J, Spock

// FRONTEND TypeScript, Angular 5, Ionic, SCSS, Karma, Jasmine, Protractor

// INFRASTRUCTURE Maven, npm, Git, Bitbucket, Jenkins 2, Google Storage, contentful

// COLLABORATION Scrum, Jira, Confluence

04/2016 - 03/2017 // Recipe Ingredient Mapping

INDUSTRY E-Commerce

CHALLENGE "Create a fully automated solution to link recipe ingredient lists to products available in a

large grocery store. To increase visibility and the potential user base, make the solution

available as a plugin component on cooperation partners' websites."

ROLE Fullstack Developer

* Conception and implementation the mapping logic from text to ingredients in a dedicated

micro service

* Data preprocessing of user input using natural language processing (NLP)

* Evaluation and combination of several ingredient search algorithms

* Implementation of a JavaScript snippet to be embedded into other websites offering recipes and to redirect the user to the respective mapping result in the web shop

* Automate the incremental import of company-owned recipe data from CMS over Kafka

* Implementation of a searchable recipe catalogue using Apache Solr

TECH STACK

// BACKEND Java 8, Groovy, Spring Framework, Spring Data JPA, Spring Web Services, Spring Kafka,

Camel, Spock, Swagger, Kafka, Apache Solr, Apache Kafka, Tomcat, Netflix Hystrix, Netflix Ribbon, Netflix Sleuth, Netflix Zuul, Togglz, Spock, Gatling, DbUnit, REST-assured, JAX-RS

// FRONTEND TypeScript, JavaScript, React, Postal.js, SCSS, Jasmine, Galen, Geb, Google Analytics, Adobe

Analytics

// INFRASTRUCTURE Maven, npm, webpack, Docker Swarm, Bamboo, Git, Stash, Akamai

// COLLABORATION Scrum, Jira, Confluence

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04/2015 - 08/2015 // Product Search

INDUSTRY F-Commerce

CHALLENGE "Extract and re-implement the product search function of a monolithic legacy shop system

for a large grocery retailer. Improver search results in terms of precision, recall and

presentation. Then personalize the search results of each customer base on their shopping

history."

ROLE **Backend Developer**

RESPONSIBILITIES * Legacy system refactoring of the shop monolith to separate product search logic

components

* Implementation of a search micro service to provide the full product search functionality

via REST in an independent micro service

* Provisioning a meaningful monitoring to gain insights into user behaviour and highlight

weak spots in the current implementation

* Optimizing Solr schema based on the observed user behaviour

* Search experience personalization based on the user's shopping history

TECH STACK

// BACKEND Java 8, Groovy, Struts 2, Spring Boot, Spring Data, Spring Web Services, JPA, Hibernate,

Postgres, Apache Solr, Apache Zookeeper, Apache Kafka, Tomcat, Netflix Hystrix, Netflix

Ribbon, Netflix Sleuth, Netflix Zuul, Spock, Gatling, DbUnit, REST-assured, JAX-RS

// FRONTEND JavaScript, Java Server Pages (JSP), Handlebars.js, Require.js, Postal.js, Jasmine, Galen, Geb,

Google Analytics, Adobe Analytics

// INFRASTRUCTURE Maven, npm, Grunt, Git, Stash, Bamboo, Docker Swarm

// COLLABORATION Scrum, Jira, Confluence

12/2014 - 03/2015 // Online Wine Shop

INDUSTRY E-Commerce

CHALLENGE "Develop a standalone web shop to sell wine online and embed it into the existing

> infrastructure of the company including internal accounting and inventory management systems. Use commercetools as the shop backend to evaluate it for the company's core

business."

ROLE Fullstack Developer

RESPONSIBILITIES * Development of the web shop frontend using Thymeleaf

* Backend development using Spring Boot

* Integration of the group-owned commodities management

* Shop backend integration with the commercetools commerce platform

TECH STACK

// BACKEND Java 8, Spring Boot, Spring Web Services, Spring JPA, Spring Security, Camel, Hibernate,

Togglz, JUnit, Mockito, DbUnit, JMS-Queue (IBM WebSphere Connector), Postgres, Elastic

Search

// FRONTEND Thymeleaf, JavaScript, HTML5, SCSS

// INFRASTRUCTURE Maven, Docker container, Heroku, Bamboo, Git, Tomcat, Jetty, Undertow, Stash, Sonar,

commercetools, Mandrill

// COLLABORATION Scrum, Jira, Confluence

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03/2014 - 11/2014 // Big Data Platform

INDUSTRY Market Research

CHALLENGE "Develop a unified data lake, in which all the data of the numerous data silos can be

managed and made accessible for ad hoc analysis. The platform must ensure integrity of the

data and provide the usual data cleansing and anonymization mechanisms."

ROLE Big Data Developer

* Development of ETL (Extract-Transform-Load) pipelines inside the Hadoop eco system

* Implementation of Business Intelligence (BI) reports based on an Impala Database

* Code reviews and orchestration of an India-based off-shore development team

* Bootstrapping and maintenance of the continuous deployment (CD)

TECH STACK

// BACKEND Spring Web Services, Spring Data JPA, Spring Data REST, REST-assured, Junit

// FRONTEND Thymeleaf, JavaScript, HTML5, SCSS

// COLLABORATION Jira

08/2011 - 01/2014 // Scientific work in the field of Data Mining

INDUSTRY Research

CHALLENGE "Facilitate the development process of clustering algorithms for extremely large and high

dimensional datasets and their evaluation against each other."

ROLE Research assistant

* Conception of a clustering algorithm suitable for extremely large and high dimensional

datasets (e.g. gene sequences) based on MapReduce

* Hadoop-based implementation of the clustering algorithm

* Extension of the scientific stream data analysis suite (MOA) for online clustering

algorithms

* Developing a tool for experiment design, automated parameter tuning and result

management in the field of machine learning algorithms.

* Tutorials for data structures and algorithms

* Supporting lecture and exam preparation

TECH STACK

// BACKEND Java, C++

// FRONTEND Eclipse RCP, Swing, QT

// Infrastructure Maven, Subversion, Hadoop, Weka, Moa