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Technical Team Lead/Software Architect

Technical Architect with extensive experience in designing, implementing and integrating complex distributed software systems.

Proven ability to design and develop solutions for payment platforms, mobile carrier billing systems integration and Business Support Systems (BSS).

Problem solving skills are complemented by experience working in cross-functional teams using Agile Methodology.

Publicis Sapient/Lloyds Banking Group	London, UK
Solutions Architect (Contractor) - Retail Banking Application Modernisation	05/2022 - 06/2022

 Collaborated with cross-functional teams in improving data ingestion pipelines for BASE 2 transaction data analytics.

Technologies: Java, Spring Boot, OpenAPI, Apache Spark, OpenShift

NewDay	London, UK
Software Engineer (Contractor) - GraphQL PoC	07/2021 - 11/2021

- Designed and documented architecture solution required for transforming a RESTful BFF layer to a GraphQL integration layer.
- Implemented and evaluated performance tests on GraphQL applications that integrated downstream back-end services.

Technologies: Kotlin, Spring Boot, OpenAPI, GraphQL, Node.js, JMeter, BlazeMeter, GitHub Actions, Azure, Octopus Deploy

Daimler	Stuttgart, Germany
Solutions Architect (Contractor) - Vehicle Order Management System Modernisation	02/2021 - 07/2021

- Collaborated with business architects and product owners in identifying bounded contexts and business objects that were needed for defining sales, pricing and order workflows.
- Created high-level solution architecture and collaborated with dev teams in functionally decomposing legacy applications that were planned for migration to cloud-native microservices.
- Evangelised best practices for cloud-native application development and provided guidance on architecture issues to dev teams.
- Evaluated and tested workflow engine solutions with PoCs.

Technologies: Java, Spring Boot, OpenAPI, GraphQL, Angular, Microservices, BPMN & DMN modelling, Archimate, AWS, Terraform, Jenkins

Koweg Software Solutions	London, UK
Developer/Director - Securities Data Analytics	01/2014 - present

- Design and development of software solutions for analysing and visualising real-time and historical securities data.
- Ingestion and analysis of stock and market data for trading and portfolio optimisation.

Technologies Python(Pandas, Numpy, Matplotlib, Scikit-learn, Flask), Java 8, Kotlin, Spring Boot, RESTful HTTP, GraphQL, React, Azure, AWS(Lambda, S3, CDK, SAM), Terraform

Innogy/E.ON	Dortmund, Germany
Solutions Architect (Contractor) - eMobility Platform Modernisation	06/2019 - 12/2019

- Created solution designs that enabled deliverables for an EV charging network management platform.
- Collaborated with cross-functional teams in refining and documenting business use cases for EV
 charging network interoperability and charging session state management.
- Supported various teams in troubleshooting and optimising their microservice implementation in order to meet required NFRs.
- Performed architecture reviews and evangelised best practices for building cloud-native applications.

Technologies: Java, Kotlin, Spring Boot, SQL, RESTful HTTP, GraphQL, OpenAPI, Angular, UML, GitLab, Maven, JMeter, Gatling, MySQL, RabbitMQ, ActiveMQ, Glassfish, AppDynamics, CA API Gateway,

HSBC Holdings London, UK

Technical Team Lead (Contractor) - Front Office Regulatory Platform 06/2018 - 03/2019

- Collaborated with BAs in analysing various supervisory controls, reporting tools and processes that needed to be automation.
- Delivered service designs and API specifications for financial and non-financial risk control services.
- Designed integration solutions and workflows for evidencing, approving, reporting or escalating various controls such as late trades, stop-loss limit breaches and personal account dealing breaches.
- Coached and led teams in agile software development practice -TDD, BDD and peer reviews.
- Collaborated with Product Owners in refining and prioritising product backlogs.

Technologies: Java 8, Kotlin, Spring Boot, VertX, Activiti, SQL, RESTful HTTP, Swagger, Angular, OAuth 2, Oracle 11g, UML, Git, Maven, REST Assured, Cucumber, JMeter, WireMock, Docker, Kubernetes, Jenkins

Deutsche Bank

Senior API Engineer (Contractor) - Securities Order Management System Integration

06/2017 - 05/2018

- Designed and documented business partner APIs that exposed an internal Order Management System for the execution of equity orders.
- Collaborated with SMEs in understanding MiFID II directives regarding best order execution rules and cost transparency for securities transactions.
- Implemented mock services to simulate trade execution and validate interface models.

Technologies: Java 8, Spring Boot, Angular, SQL, RESTful HTTP, Swagger, Cucumber, OpenID Connect, OAuth 2, Oracle 11g, UML, Git, Maven, Tomcat, REST Assured, SoapUI, WireMock

HSBC Holdings London, UK

Technical Team Lead(Contractor) - Digital Transformation Programme 08/2016 - 04/2017

- Designed and documented APIs for various internal corporate banking services.
- Led PoCs on ForgeRock OpenAM & OpenIDM as access control and identity management solutions.
- Collaborated with SMEs in defining bounded contexts for a Letter Of Credit component in a monolithic trade services platform.
- Designed and implemented workflows for user onboarding processes that orchestrated multiple distributed services.

Technologies: Java, Spring Boot, SQL, RESTful HTTP, Oracle 11g, MongoDB, RAML, Jenkins, Git, Maven, IBM MQ, Pivotal Cloud Foundry(PCF), OpenAM, OpenIDM, OpenDJ, MuleSoft Runtime Engine, React JS

Barclays Bank

Knutsford, UK
Senior Agile Developer(Contractor) - Cheque Imaging Clearing Hub

10/2015 - 06/2016

- Implemented business rules and integration solutions for an electronic cheque image processing system.
- Defined build pipelines and created scripts for deployments to OpenShift platform.

Technologies: Java, Spring, JDBC, Hibernate, RESTful HTTP & SOAP Web Services, XML/XSD, Camel, Oracle 11g, UML, Jenkins, Git, Maven, Gradle, ActiveMQ, JBoss EAP, OpenShift

Erste Group Bank

Vienna, Austria

Senior Agile Developer(Contractor) - Digital Banking Platform Modernisation

03/2015 - 09/2015

- Designed and implemented solutions for migrating a monolithic digital banking platform to a microservice architecture.
- Collaborated with SMEs in defining APIs for Card, Accounts and User services.
- Collaborated with Product Owners and stakeholders in refining and prioritising product backlogs.
- Facilitated collaboration in a Scrum of Scrums across business units in order to enable feature teams meet sprint goals.

Technologies: Java, JavaScript, Spring, JDBC, JPA, SQL, RESTful HTTP & SOAP, Cucumber, JSON, XML/XSD, AngularJS, Camel, Oracle 12c, UML, Git, Maven, ActiveMQ, Tomcat

Encore Tickets	London, UK
Team Lead, Scrum Master - Ticketing Platform Modernisation	09/2014 - 12/2014

- Led a Scrum team of 4 in designing a microservice architecture blueprint for modernising a monolithic ticketing platform.
- Created and presented architecture designs for implementation by a dev team.

Technologies: Java, Spring, JDBC, JPA, SQL, RESTful HTTP, SOAP, JSON, XML/XSD, XPath, Cucumber, JMeter, Camel, MySQL, UML, Git, Maven ActiveMQ

Monitise Group

London, UK
Senior Software Developer - Mobile Banking and Payment Services

07/2012 - 11/2013

- Implemented various payment solutions for the VISA payment processing platform.
- Designed and implemented web interface for managing encryption keys generated by a HSM infrastructure.
- Collaborated with cross-functional teams in the technical planning and design of a global reference platform for a telecommunications service provider.

Technologies: Java, Spring, JDBC, JPA, PLSQL/SQL, RESTful HTTP, SOAP, JBehave, Selenium, JMeter, JSON, XML/XSD, XSL/XSLT, XPath, Camel, Oracle 11g, UML, Git, Maven, Ant, Fuse ESB, Glassfish

Net mobile AG/DOCOMO DeutschlandDüsseldorf, GermanyProject Lead, Software Developer - Mobile Payments06/2010 - 07/2012

- Collaborated with external stakeholders in defining functional and technical requirements for various payment service and mobile carrier billing integration initiatives.
- Implemented and tested Visa 3-D Secure protocol for our payment gateway.
- Led adhoc teams in delivering various optimisation solutions for data ingestion and application workflows.
- Designed and coded various transaction insight tools that generated metric reports and triggered alerts on transaction anomalies.

Technologies: Java, Perl, Python, JDBC, JPA, SQL, JSP, Servlets, JSF, Web Services (REST, SOAP/WSDL), XML/XSD, XPath, ActiveMQ, PostgreSQL, Fuse ESB, UML, SVN, Maven, Ant, JMeter, Archi

sms eSolutions GmbH	Düren, Germany
Project Lead, Software Developer - Phone Number Allocation & Porting System	03/2009 - 03/2010

- Collaborated with external stakeholders in defining functional and technical requirements for integrating a phone number allocation and management system.
- Led a team of 4 in implementing the German Federal Network Agency specification for phone number porting and management.
- Coached and mentored junior developers in software best practices.
- Provided 3rd-level support to customers in QA testing and release migration phases.

Technologies: Java, EJB, Spring, Shell Scripting, JPA, Hibernate, SQL, Web Services (REST, SOAP/WSDL), XML/XSD, Tomcat, Glassfish v3, ActiveMQ, Oracle 10g, UML, Subversion, CVS, Hudson, Maven, Ant, Eclipse, Umbrello, XML Spy, SQL Developer

Logica GmbH	Düsseldorf, Germany
IT Consultant	05/2008 - 02/2009

• Collaborated with clients in defining functional and technical requirements for an information management system at an electric utility company.

- Consulted with public service clients in optimising and implementing new features for a legacy information management system at a government data center.
- Coded various design solutions.

Technologies: Java, EJB, Spring, Shell Scripting, PLSQL, JPA, Hibernate, SQL, JSF, JSP, Servlets, XML, XHTML, Tomcat, JBOSS, Oracle 10g, UML, SVN, CVS, Hudson, Maven, Ant, Eclipse, MagicDraw

Volkswagen AG	Wolfsburg, Germany
Intern (R&D) - Offboard Diagnostic System	10/2006 - 04/2007

- Designed and developed concept for a fault diagnostic system. Modelled electrical component networks and decision making strategies using extended Bayesian networks.
- Implemented a prototype inference and decision engine using Java and the Hugin API.

Technologies used: Java, Spring, JSP, XML/XSD, XSLT, Tomcat, UML, Together, Hugin Decision Engine

University of Duisburg-Essen	Duisburg, Germany
Programmer & System Administrator	10/2002 - 06/2006

10/2002 - 06/2006 Programmer & System Administrator, University of Duisburg-Essen, Germany

- Developed an information management system that motivated funding for a major portal project.
- Member of an architecture planning team that was responsible for a university-wide portal project. Evaluated various portal software solutions such as Liferay and uPortal.
- Tutor for PHP/MySQL programming and mentor for multiple project teams.

Technologies used: PHP, Java, Spring, Shell Scripting, JSP, Servlets, XML, XSL/XSLT, XHTML, CSS, Tomcat, JBOSS, Apache HTTP Server, UML, Subversion, Ant, Eclipse, Zend IDE

Education

University of Duisburg-Essen, Duisburg, Germany

Diplom Ingenieur (M.Sc.) Computer Science and Communications Engineering

Languages

English and German (fluent)

Technical Skills

Languages: Java, Kotlin, Python, Perl, PHP, C/C++, SQL, Shell Scripting,

Modelling:UML, ArchimateCloud:PCF, AWS, AzureContainerisation:Docker, KubernetesTest Tools:JMeter, SoapUI, CucumberDatabases:Oracle 11g, PostgreSQL, MySQL

Middleware: Fuse ESB, Glassfish v3, ActiveMQ, RabbitMQ, Kafka

Web Technology: Servlets/JSP, XHTML, CSS, XML/XSD, XSL/XSLT, JSON,

REST

Tools: Eclipse, XMLSpy, MagicDraw, CVS/SVN/Git, Ant/Maven

Training:

TOGAF 9, Certified ScrumMaster, PMP Training, Cloudera Data Science Training