Robert Rong

8808 Pfäffikon SZ · Switzerland

+41 (0)76 576 47 73 · robert.rong@agile-solutions.ch

CONSULTANT PROFILE
Java and Kotlin Spring Boot Back-End Microservices Developer and DevOps Engineer

About

Experienced Java Spring Framework and Spring Boot developer with deep roots in enterprise software and a forward-looking approach. Continuously evolving with the latest trends in Microservices architecture, Docker/Kubernetes, Azure and GitLab CI/CD. Accelerating productivity and code quality by integrating AI-powered development tools like GitHub Copilot into modern software delivery workflows. Experienced in implementing observability, monitoring, and visualization of key metrics for Spring Boot microservices with Prometheus and Grafana, deployed on Kubernetes across multiple cloud environments.

With 40 years of experience in Software Engineering and System Integration across diverse industries—including Logistics, Government, Telephony, Banking, Insurance, I have built a career as a results-driven consultant. My expertise spans roles with organizations such as ITT, DEC, Philips, Shell, Samsung, KPN Royal Dutch Telecom, Friesland Bank, UBS, Credit Suisse, Bank Julius Baer, and Swiss RE.

Specialized in optimizing software development processes to enhance productivity and quality across all facets of development. With focus on Spring and JEE development, build and release management, testing, issue tracking, continuous integration and delivery (CI/CD), and improving code quality. My experience includes implementing enterprise-grade CI/CD DevOps solutions using tools like Jenkins and Azure DevOps pipelines and GitLab for software development, CI/CD, security scanning, project management and more.

Key technical skills and accomplishments include:

• **Cloud and Kubernetes**: Proficient in Azure DevOps, Kubernetes (AKS, OpenShift, PKS), HELM packaging, and deployment to Kubernetes clusters. Experienced in Terraform and MS ARM Templates for provisioning and managing Azure resources via ARM (Azure Resource Management).
• **Development and Architecture**: Skilled in supporting development teams through modern techniques, fostering transitions to Microservices Architecture (MSA), and designing robust Spring Boot solutions.
• **Integration and Messaging**: Expertise in Enterprise Integration Patterns (EIP) using Apache Camel, asynchronous messaging with Apache Kafka (including Spring Kafka, KStreams, and KTables), and utilizing tools like Apache AVRO and Confluent Schema Registry.
• **Observability and Monitoring**: Implementing Spring Boot metrics and observability using Micrometer, Prometheus, and Grafana for production-grade monitoring, alerting, and performance analysis.
• **Spring Framework**: Comprehensive development experience across the Spring ecosystem, including Spring Integration, MVC, Data REST, HATEOAS, and Spring Security (Kerberos, OAuth 2.0, and OIDC).

I am passionate about empowering teams with modern development practices, enhancing system reliability, and driving innovation through strategic technology adoption.

• **Key Skills**

- • **Programming & Frameworks:** Java, JEE + Spring Boot (WebFlux, Data, Security, Cloud, Batch), RESTful APIs, Microservices.
- • **Cloud Platforms:** Microsoft Azure (AKS, App Service, Storage, Functions, Monitor).
- • **DevOps & CI/CD:** Azure DevOps, Jenkins, Helm, Kustomize.
- • **Infrastructure as Code:** Terraform, ARM Templates.

- **Databases:** MySQL, PostgreSQL, MongoDB, Oracle, Sybase.
- **Messaging:** Kafka (Streams, Connect), RabbitMQ, IBM MQ, ActiveMQ.
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack.
- **Version Control:** Git, GitHub, Bitbucket.

EDUCATION	**1985: ICT Technology (AMBI)**, EXIN, Netherlands AMBI Praktijkdiploma Cobol
	1985: ECABO Netherlands, certified Applicatie Programmeur Cobol
	1974-1080: Casimir Lyceum Amstelveen, VWO

CERTIFICATES	2025: **Ademy:** Azure Kubernetes Services with DevOps and Terraform 2004: **SCJP 1.4** (Sun Certified Java Programmer) 2003: **ITIL Foundation** PinkRoccade Educational Services

SKILLS

- ➢ **Key Skills**
  - **Programming & Frameworks:** Java, JEE + Spring Boot (WebFlux, Data, Security, Cloud, Batch), RESTful APIs, Microservices.
  - **Integration and Messaging:** Expertise in Enterprise Integration Patterns (EIP) using Apache Camel, asynchronous messaging with Apache Kafka (including Spring Kafka, KStreams, and KTables), and utilizing tools like Apache AVRO and Confluent Schema Registry.
  - **Cloud Platforms:** Microsoft Azure (AKS, App Service, Storage, Functions, Monitor), Azure DevOps and ADO pipelines, RH OpenShift.
  - **Development and Architecture:** Skilled in supporting development teams through modern techniques, fostering transitions to Microservices Architecture (MSA), and designing robust Spring Boot solutions.
  - **DevOps & CI/CD:** Azure DevOps, Jenkins, Helm, Kustomize, Docker, Kubernetes, FluxCD
  - **Infrastructure as Code:** Terraform, MS ARM Templates.
  - **Databases:** MySQL, PostgreSQL, MongoDB, Oracle.
  - **Messaging:** Kafka (Streams, Connect), RabbitMQ, IBM MQ, ActiveMQ.
  - **Monitoring & Logging:** Prometheus, Grafana, ELK Stack.
  - **Version Control:** Git, GitHub, Bitbucket.

- ➢ **Methodologies**
  - RUP
  - XP Extreme Programming
  - SCRUM/Kanban
  - Prince2
  - Yourdon SA/SD

- ➢ **Design**
  - Jackson Structured Design
  - OOA/OOD (object oriented analysis and design)
  - UML (IBM Rational Rose)
  - ERD – Relational Data Modeling
  - Yourdon SA/SD (structured analysis and design)

- ➢ **Language**
  - Dutch (native)
  - English (fluent)
  - German (intermediate)

EXPERIENCE

Period	February 2022 – January 2025
Client	Swiss Re Zurich
Job title	Senior Spring Boot Developer and Azure DevOps Engineer

Focused on developing data integration and business services aligned with a microservices architecture, Implementing and improving DevOps and Continuous Delivery (CD) practices. My responsibilities included packaging and deploying to AKS using HELM/Kustomize and Azure DevOps release pipelines, while ensuring compliance with CI/CD standards and introducing automated tests on Azure DevOps pipelines.

Key contributions and expertise include:
Development and Testing:
• Employ Test-Driven Development (TDD) with JUnit 5 and TestContainers for automated unit and integration testing.
• Conduct code reviews, resolve bugs, and address issues in deployed environments.
• Implement Spring Security OAuth 2.0 for securing REST APIs and • configure security with Azure Active Directory (AD) and Azure Kubernetes Service (AKS).
• Build and manage microservices on the Microsoft Azure cloud platform.
CI/CD and Tooling:
• Tools and runtimes include IntelliJ IDEA, Azure DevOps, Azure DevOps Pipelines, Azure Logs Analytics, Application Insights, AKS Kubernetes, Azure AppConfig, and Azure KeyVault.
• Manage database integration with PostgreSQL and handle schema evolution using Flyway.
• Leverage Apache Kafka for messaging with Spring for Apache Kafka, Apache Avro, Confluent Avro Schema Registry, Kafka Streams, and Lenses.io for Kafka.
Agile Methodologies:
• Scrum and SAFe frameworks to deliver software solutions.

Skills: Apache Kafka · Spring Boot · Spring Cloud · PostgreSQL · Kubernetes · Azure Kubernetes Service (AKS) · Microservices · Azure DevOps · REST-API · OpenID Connect (OIDC) · OAuth · Helm Charts · Kustomize · DevOps.

Period	Jul 2020 – Feb 2022
Client	Credit Suisse, Zurich
Job title	Java Developer Spring Boot

Tasked building robust and scalable back-end solutions using Spring Boot, with extensive experience in Agile methodologies and modern development tools. I excel in delivering high-quality software through effective collaboration and a strong focus on testing and CI/CD processes.

Tools and Methodologies:
• Agile Practices: Experienced in Agile and Scrum frameworks, managing tasks and collaboration through JIRA and Bitbucket.
• Collaboration Tools: Utilize IntelliJ IDEA for development and • Skype to facilitate remote team collaboration.
• CI/CD: Proficient with Odyssey and Jenkins for continuous integration and delivery.
Testing and API Development:
• Testing Frameworks: Expert in JUnit 5 and Spring MockMvc for comprehensive REST API testing.
• API Design: Skilled in designing APIs using OpenAPI Specification (OAS) 3.0 and Swagger documentation.
• Consumer-Driven Contract Testing: Implement contract testing with Pact to ensure seamless integration with API consumers.
Spring Ecosystem and Microservices:
• Familiar with Spring Cloud Netflix components like Zuul (API Gateway) and Eureka (Service Discovery).
Database and Schema Management:
• Use Liquibase for automated schema updates, specifically for Oracle databases.
Log Management and Monitoring:
• Monitor and analyze application logs efficiently using Splunk.

With a strong technical foundation and a commitment to collaboration, I contribute to building maintainable, efficient, and secure back-end solutions tailored to modern software architectures.

Skills: Spring Boot · Spring Cloud · REST-API · Cucumber · Jenkins · Oracle-Datenbank · Serviceorientierte Architektur (SOA) · Microservices · Open API · Swagger API.

Period	Nov 2010 – Jul 2020
Client	Bank Julius Bär, Zurich
Job title	JEE and Spring Boot Developer and Solution Architect

DevOps Tooling and Application Provisioning:
• Implementation of DevOps tooling for provisioning business solutions on JBoss EAP6 and EAP7 at Bank Julius Baer (Zurich and Singapore).
• Introduced and streamlined an ALM toolset, including JIRA Agile, Nexus, Jenkins, Bitbucket/Git, Selenium, and SonarQube, significantly enhancing Agile development and DevOps workflows.

OpenShift and Proof of Concept Management:
• Managed and implemented a Java development proof-of-concept (POC) cluster on RedHat OpenShift in collaboration with RedHat architects to evaluate and optimize platform performance.

Azure Cloud Development Support:
• Provided guidance and onboarding support to development teams from various suppliers for the Azure Cloud development platform.
• Set up and trained teams in developing Spring Boot microservices and React applications on Kubernetes PKS.

Spring Boot and Microservices Development:
• Developed Spring Boot starters and established best practices for technologies such as Keycloak (OIDC/SPNEGO-Kerberos), Spring Cloud Sleuth, Config, Eureka, and Gateway.

CI/CD Pipelines and Kubernetes Integration:
• Engineered end-to-end DevOps pipelines using Jenkins declarative Groovy scripts, including Helm-based deployments.
• Integrated Kubernetes (K8S) with Jenkins using the K8S plugin and Kaniko for container building and deployment.

Technologies and Tools:
• **Platforms**: RedHat OpenShift, Azure Cloud, Kubernetes PKS
• **DevOps Tools**: Jenkins, Helm, Kaniko, Nexus, Bitbucket/Git
• **Development Frameworks**: Spring Boot, Apache Camel
• **Database Systems**: Oracle, NoSQL/MongoDB
• **Security**: Keycloak (OIDC/SPNEGO-Kerberos)
• **Monitoring and Configuration**: Spring Cloud Sleuth, Config, Eureka

Skills: Spring Boot · Spring Security · Spring Cloud · REST-API · JBoss EAP · Kubernetes · OpenShift · Cucumber · ElasticSearch · Spring Batch · WebLogic · Jenkins · Temenos T24 · Oracle-Datenbank · Serviceorientierte Architektur (SOA) · Microservices · Open API · Swagger API · NoSQL · MongoDB

Period	Jul 2009 – Nov 2010
Client	Credit Suisse, Zurich
Job title	Senior Java JEE and Spring Developer

Tasked with the development and integration of trading portal solutions, leveraging a robust suite of Java Enterprise Edition (JEE) technologies.

Key expertise includes:
Application Servers and Databases:
• Proficient in WebLogic and Oracle database integration to ensure high-performance, reliable enterprise applications.

Integration and Messaging:
• Extensive experience with Apache Camel (Enterprise Integration Patterns) and Apache CXF for developing and managing integration workflows and web services.
• Web Services: Skilled in JAX-WS for building SOAP-based services and ensuring seamless communication across systems.

Persistence and Front-End Development:
• Expertise in JPA for data persistence and JSF for developing dynamic, user-centric interfaces.

Portal Development:
• Experience with WebLogic Portal for creating and managing scalable, feature-rich trading platforms.

This combination of technologies allows me to deliver scalable, efficient, and highly integrated solutions tailored to complex trading environments.

Skills: WebSphere MQ · Spring Framework · Java Message Service (JMS) · WebLogic · Spring Integration · Jenkins · Oracle-Datenbank · Serviceorientierte Architektur (SOA) · Open API · Swagger API.

Period	Jul 2007 – Jun 2009
Client	UBS, Zurich
Job title	Java Spring Developer

Hired as an independent consultant and engineer tasked to modernizing enterprise Java applications and advocating for agile development practices.

Key responsibilities and accomplishments include:

Modernizing Legacy Systems:
• Providing alternatives to traditional J2EE EJB 2.0/2.1 architectures by leveraging the flexibility and simplicity of the Spring Framework.
• Streamlining application development and improving maintainability by transitioning to lightweight, modular Spring-based solutions.
Agile Practices and Methodologies:
• Introducing Extreme Programming (XP) concepts, including iterative design and development, to enhance collaboration, adaptability, and product quality.
• Promoting test-driven development (TDD) to ensure code reliability and robust functionality.
Integration and Middleware:
• Expertise in Enterprise Integration Patterns (EIP) using Apache Camel to create scalable, reusable integration workflows.
• Hands-on experience with Mule ESB for seamless system connectivity and efficient message handling.

By combining modern frameworks, agile methodologies, and integration expertise, I help organizations transform their software development processes and deliver high-quality, maintainable solutions.

Skills: WebSphere MQ · Spring Framework · Java Message Service (JMS) · Apache Camel · Spring Integration · Jenkins · Oracle-Datenbank.

Period	Feb 1996 – Jun 2007
Client	Jenrick Technology – London
Job title	J2EE and Spring Developer and solution Architect (Amsterdam/Rotterdam area)

Hired to engineering robust Spring applications, leveraging a diverse set of frameworks, methodologies, and integration tools. I worked on various customer projects for organizations such as Dutch telecom, Samsung, banking environments.

Key areas of expertise include:
Spring Framework:
• Proficient in Spring MVC, AOP, Integration, Batch, and Acegi Security (predecessor to Spring Security) to develop secure, scalable, and modular enterprise applications.
Persistence and Integration:
• Skilled in Hibernate for ORM and database management.
• Extensive experience with Enterprise Integration Patterns (EIP) using Apache Camel and Mule ESB for seamless system connectivity.
• Hands-on expertise with Apache ServiceMix for lightweight service-oriented architecture (SOA) implementations.
Methodologies and Design Techniques:
• Applying Rational Unified Process (RUP) and Extreme Programming (XP) for iterative development and delivery.
• Utilizing UML for effective system modeling and communication.
Customer Engagements:
• Delivered high-impact solutions for prominent clients, including Schiphol Airport, KPN Telecom, Samsung, ECT Europe Container Terminals Rotterdam, ING Bank, ABN AMRO, and more.

By combining technical expertise with proven methodologies, I deliver tailored solutions that meet client needs and ensure system efficiency, scalability, and maintainability.

Skills: WebSphere MQ · Spring Framework · Java Message Service (JMS) · Apache Camel · WebLogic · Spring Integration · Oracle-Datenbank · COBOL · C · Java.

Period	Apr 1988 – Nov 1996
Client	Digital Equipment Corporation (Utrecht)
Job title	Software Engineer

As member of the DEC Application Development Group, I worked on various customer projects for organizations such as Philips, Shell, KPN (Dutch Telecom), ING, and Friesland Bank.

Key areas of expertise include:
Programming Languages:
• Proficient in MACRO-11 Assembler, C, COBOL, Fortran, and Pascal, developing robust and efficient software solutions.
Database Systems:
• Hands-on experience with DEC RDB (Relational Database Management System) for data storage and management.
Operating Systems:
• Skilled in working with Unix, VMS, and Ultrix environments, ensuring platform-specific optimization.
Software Design and Methodologies:
• Applied structured design techniques such as Yourdon SA/SD (Structured Analysis and Structured Design) and JSP (Jackson Structured Programming) to create scalable and maintainable systems.

Through a combination of diverse technical expertise and structured design methodologies, I contributed to delivering high-quality software tailored to the specific needs of major clients.

Skills: C (Programmiersprache) · Fortran · COBOL.

Period	Jun 1984 – Apr 1988
Client	ITT R&D Amsterdam
Job title	System Programmer

Began my career as a System Programmer in the ITT Research & Development department, focusing on cutting-edge technologies of the time.

Technologies and Expertise:

Programming Languages:
• Specialized in MACRO-11 Assembler, C, Fortran, and Pascal, developing system-level and application software.
Database Systems:
• Worked with DEC RDB (Relational Database Management System) for data management and storage solutions.
Operating Systems:
• Gained extensive experience in Unix and VMS environments, ensuring efficient system performance and reliability.

This role laid a strong foundation for my technical expertise, enabling me to work on complex system programming tasks and contribute to innovative R&D projects.

Skills: C (Programmiersprache) · Fortran · Assembler . TCP/IP . DECnet.

REFERENCES   Available upon request