



Engineering Lead and Technical Product Owner with 10+ years of experience specializing in scalable backend architectures, cloud migrations, and AI integrations. Proven track record of modernizing legacy systems in FinTech and the Automotive sector, driving significant infrastructure cost savings, and leading cross-functional engineering teams.

Work Experience

- Technical Lead

May 2026 - Present

BMW M Motorsport

- Directed the modernization and cloud migration of a complex portfolio of 20+ racing IT applications (car configuration, telemetry, logistics)
 - Architected a robust Data Lake and integrated MCP (Model Context Protocol) servers to seamlessly connect migrated applications with GenAI and autonomous agent workflows
 - Established overarching IT standards across the Motorsport domain while managing requirements engineering and external vendors
 - Coordinated and validated deliverables from external development teams, ensuring high-quality execution and alignment with technical standards
 - Analyzed current operational processes to identify inefficiencies and proposed AI-supported improvements to drive workflow automation and efficiency

C/C++ (MFC) • Java 21 • Spring Boot • AWS • K8s • Terraform • Microservices • REST • SQL • Windows Server • Git / Copilot
- Technical Lead & Technical Product Owner

Sep 2025 - Apr 2026

BMW AG

- Directed the strategic roadmap for ConRecOrd & VoMS, optimizing global stock levels and order templates within BMW's decentralized ordering landscape
 - Managed end-to-end product delivery, including backlog prioritization, cross-functional team coordination, stakeholder alignment, and budget planning
 - Leveraged AI-driven tools for system monitoring and infrastructure cost optimization to enhance internal processes
 - Budget management, including planning, forecasting, and resource allocation

Java 11-21 • Quarkus • PostgreSQL • Oracle SQL • Kubernetes • Docker • Kafka • Liquibase • Flyway • Hibernate • Microservices • JUnit • Maven • Git • REST APIs • Keycloak • JIRA • AWS • Terraform • JSF
- Technical Lead, IT Project Manager

Nov 2023 - Sep 2025

BMW AG

- Led the technical architecture and execution of a €2M cloud migration project for BMW's global order template system (ConRecOrd), directing a team of 7+ external developers and project managers while ensuring strict quality control over all deliverables
 - Redesigned the stock optimization algorithm, reducing infrastructure costs by 76%, improving performance by 87%, and saving 70k EUR/year
 - Implemented FinOps practices resulting in predictive infrastructure cost savings of 30k EUR/year

Java 11-21 • Quarkus • PostgreSQL • Oracle SQL • Kubernetes • Docker • Kafka • Liquibase • Flyway • Hibernate • Microservices • JUnit • Maven • Git • REST APIs • Keycloak • JIRA • AWS • Terraform • JSF

Contact

- ✉

mail@ruicouto.com
- ☎

+49 170 23 25 718 | +351 912 325 718
- 🌐

ruicouto.com
- 🌐

linkedin.ruicouto.com
- 📍

Munich, Germany

<> Skills

- Technical Architecture

✓ Java / Spring Boot

✓ Cloud Architecture (AWS/Azure)

✓ Microservices & System Design

✓ Event-Driven Architecture

✓ Artificial Intelligence (AI)

✓ CI/CD & DevOps

✓ Angular

✓ iOS (Swift)
- Leadership & Product

✓ IT Project Management

✓ Product Management

✓ Team Leadership & Mentoring

✓ FinOps & Cost Optimization

✓ Agile / Scrum

● **Senior Software Engineer & People Link** Aug 2021 - Oct 2023

apinity (prev Syncier)

- ▶ Architected and designed event-driven APIs and data models to introduce new monetization capabilities for banking and insurance APIs
- ▶ Led integration initiatives for key stakeholders across the entire software lifecycle (design, estimation, planning, and implementation)
- ▶ Spearheaded complex migrations and tech debt resolution, achieving significant monthly cost reductions and successfully rewriting over 60% of the legacy codebase
- ▶ Mentored and managed the career progression of 5 engineers, conducting performance reviews and driving recruitment efforts

Java 11-17 · Spring Boot · PostgreSQL · Azure Cloud · Kubernetes · Docker · Kafka · Axon · gRPC · Liquibase · Hibernate · Hazelcast · Microservices · JUnit · Gradle · Git · REST APIs · Keycloak · JIRA

● **Software Engineer** Aug 2019 - Jul 2021

PAYBACK (part of the American Express group)

- ▶ Designed and deployed backend features to expand the international loyalty point system, managing the full lifecycle from concept to production
- ▶ Managed cross-functional stakeholder expectations during a critical data migration affecting over 30 million production records with near-zero downtime (<1 hour)
- ▶ Drove the architectural migration of a legacy monolithic project towards a scalable microservices architecture
- ▶ Managed continuous integration, delivery, and production releases using Jenkins and Ansible

Java 8-11 · Spring Boot · JEE · JSP · Spring · SQL · Ansible · Jenkins · Hibernate · Microservices · Git · SVN · JUnit · Maven · REST APIs · JIRA

● **Software Developer** Sep 2017 - Jul 2019

enmacc trading platform

- ▶ Implemented core backend features and drove architectural decisions for event-driven communication within a Spring Boot monolith
- ▶ Optimized system performance through caching and efficient data transmission (gzip), achieving sub-100ms response times for the majority of requests
- ▶ Contributed to full-stack feature development, including frontend fixes and enhancements using Angular

Java 8-11 · Spring Boot · SQL · REST APIs · Kafka · JUnit · Maven · Git · JIRA

● **Java Consultant** Aug 2015 - Sep 2017

eProseed

- ▶ Spearheaded the architectural transition from a monolith to microservices for a major UK retail company
- ▶ Developed and delivered a working prototype for a digital click & collect system for a UK retailer
- ▶ Introduced document digitalization features for major EU asset & wealth management providers, significantly reducing manual policy document reviews

Java 6-8 · Java EE · Oracle ADF · Oracle SQL · SVN · JIRA

 Education

● **MSc Software Engineering** 2013 - 2015

Faculty of Engineering, Porto University, Portugal

● **BSc Computer Science** 2010 - 2013

Faculty of Engineering, Porto University, Portugal

 Languages

- ✓ Portuguese (Native) ✓ English (Fluent)
- ✓ German (B2) ✓ Spanish (A2)

 Interests

- ✓ Fitness ✓ Hiking ✓ Travelling
- ✓ Automation / DIY ✓ Politics