

Sergio Belli

Software & Cloud Architect | Backend Engineer | AWS Certified

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PROFESSIONAL SUMMARY

Software & Cloud Architect with 20+ years of experience in enterprise backend development and distributed systems design. Specialized in cloud-native architecture on AWS and Java backend engineering (21/17/11). 10+ years of hands-on AWS infrastructure management across multiple clients: cloud migration, VPC design, security governance, cost optimization, and high availability. AWS Solutions Architect Associate certified.

CORE SKILLS

Cloud & AWS EC2 (Spot ASG) · RDS / Aurora · S3 · CloudFront · Lambda · API Gateway · Route 53 · DynamoDB · SQS · EventBridge · Cognito · CloudFormation (IaC) · SSM Parameter Store · Bedrock · OpenSearch Serverless · Lex v2 · OpsWorks

DevOps & Infrastructure Docker · Docker Compose · Buildkite (CI/CD) · Infrastructure as Code · Linux (Ubuntu, Amazon Linux, CentOS)

Software Architecture Microservices · Solution Architecture · System Design · UML · Domain-Driven Design · Agile / Scrum · TDD

Backend Development Java 21 / 17 / 11 / 8 · Quarkus · J2EE · Spring Framework · Hibernate / JPA (Panache) · Maven · Git

Databases MySQL / Aurora · Oracle · PostgreSQL · DynamoDB · Redis · Solr · OpenSearch

WORK EXPERIENCE

Solution Architect / Tech Lead / Software Developer / DevOps Engineer

Energie3 Srl — IT Consulting | *January 2024 - Present*

Cross-functional role combining technical, organizational, and client-facing responsibilities across two parallel projects.

Cross-project activities

- Requirements analysis and functional design in direct collaboration with the client
- Technical team leading and coordination of the development team
- Project planning and activity management (backlog, sprints, priorities)
- Primary technical point of contact for the client during project reviews and demos

PA Clients — Lepida · TrentinoDigitale (*digital document preservation*)

- Architecture and maintenance of digital document preservation systems for PA clients
- Java 11 backend development on J2EE stack (JPA, Hibernate, Oracle, Solr)

Welfin — Employee Lending Platform (*fintech startup*)

- Designed and built the entire platform architecture: 6+ REST microservices in Java 21 + Quarkus, deployed via Docker Compose on EC2 Spot ASG with Apache reverse proxy
- Defined and implemented full AWS infrastructure as IaC (CloudFormation): VPC, ALB, EC2 ASG, RDS MySQL, Cognito, SQS FIFO, EventBridge, Lambda, CloudFront/S3, DynamoDB, SSM

Parameter Store

- Integrated an AI chatbot ("Jimi Lendrix") using Amazon Lex v2 (58 intents in Italian) and Bedrock Knowledge Base on OpenSearch Serverless
- Set up CI/CD pipelines with Buildkite for automated build, test, and deploy of microservices, Angular backoffice, and Bedrock KB synchronization
- Coordinated architecture and integration of a full-stack system composed of Java/Quarkus backend, Angular 15 backoffice, and Flutter 3 mobile app, developed by dedicated teams

Java 21 Quarkus Docker Docker Compose AWS CloudFormation EC2 Spot ASG RDS MySQL ALB
Cognito Lambda SQS EventBridge CloudFront S3 DynamoDB Bedrock Lex v2 OpenSearch
Serverless Buildkite Angular 15 Flutter 3 Maven Git

Chief Information Officer / Software Architect / SysOps Administrator

3W Newmedia Srl — Web & IT Services | February 2015 - January 2024 (9 years)

CIO role with full ownership of software architecture, cloud infrastructure, and technology roadmap across multiple client projects.

- Led end-to-end migration of the company's infrastructure to AWS
- Managed AWS multi-client infrastructure for 10+ years: VPC design, IAM policies, security hardening, resilience, high availability, and cost optimization
- Implemented Infrastructure as Code solutions using AWS CloudFormation
- Introduced microservices architecture and containerization with Docker / Docker Compose
- Operated full Linux environments (Ubuntu, Amazon Linux, CentOS) for both development workstations and production application servers

Java 21/17/11 Quarkus Docker AWS CloudFormation S3 CloudFront Lambda API Gateway
RDS/Aurora DynamoDB Route 53 EC2 VueJS Linux

Senior Software Developer / Junior Architect

Interlogic Srl — IT Consulting | March 2010 - January 2015

Enterprise system development and architecture for **CSI Piemonte** (Piedmont Region public IT agency).

- Delivered mission-critical projects for Italian regional public administration
- Implemented SOA and Web Services integrations
- Developed with proprietary MDD (Model Driven Development) frameworks

Java 6 Spring Framework Hibernate Apache CXF Weblogic JBoss Oracle PostgreSQL

Senior Software Developer / Junior Architect

ObjectWay Spa — IT Consulting, Finance | November 2007 - March 2010

Enterprise software development for major financial sector clients: **Tecnocasa, Banca Sella, Capitalia, UBI, Fineco**. Contributed to the design and development of *ObjectWay Financial Planning Suite*, a personal financial planning platform compliant with MiFID regulations.

Java 6 Spring Framework Hibernate Axis / CXF Weblogic JBoss WebSphere Oracle MySQL

Java Developer / Technical Analyst

Reply Spa — Telecommunications | June 2006 - October 2007

Java developer and analyst for **Fastweb** and **Vodafone**. Developed J2EE Order Management platforms, including the *Wholesale Order Management* system for Vodafone's MVNO Italia project.

Java 6 Spring Struts 2 JSF JMS Hibernate Weblogic Oracle

Java Analyst / Developer

Banca Sella Spa — Banking & Financial Services | June 2004 - June 2006

Banking procedure development on proprietary H2O framework (MVC pattern). Java-to-native integration using JNI (Java Native Interface) with C/C++ components.

[Java 5](#) [J2EE](#) [EJB](#) [JNI](#) [C / C++](#) [Oracle](#)

CERTIFICATIONS

Certification	Issuer	Date	Status
Claude Code in Action	Anthropic	March 2026	☐
Claude 101	Anthropic	March 2026	☐
AWS Certified Solutions Architect - Associate (SAA-C03)	Amazon Web Services	March 2023	☐ Valid until March 2026
AWS Certified Cloud Practitioner	Amazon Web Services	September 2022	⚠ Renewal by September 2025
Amazon DynamoDB (edX)	edX / AWS	April 2021	☐
Sun Certified Programmer for Java Platform SE 6	Sun Microsystems	April 2010	—

In progress: advanced study for AWS SAA-C03 renewal

EDUCATION

Bachelor's Degree in Computer Science — Grade: 103/110 University of Eastern Piedmont "Amedeo Avogadro", Vercelli | 2000 - 2003

Technical Diploma in Computer Science — Grade: 80/100 ITIS "Giacomo Fauser", Novara | 1995 - 2000

LANGUAGES

Language	Reading	Writing	Speaking
Italian	Native	Native	Native
English	Good	Good	Fair