

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. Quality-driven approach with strong emphasis on technical excellence and knowledge sharing, with ongoing focus on emerging technologies — currently AI/LLM with Claude API and serverless architectures.

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

Energiee3 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 using Amazon Lex v2 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](#) [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
AWS Certified Solutions Architect – Associate (SAA-C03)	Amazon Web Services	March 2023
AWS Certified Cloud Practitioner	Amazon Web Services	September 2022
Claude Code in Action	Anthropic	March 2026
Claude 101	Anthropic	March 2026
Amazon DynamoDB (edX)	edX / AWS	April 2021
Sun Certified Programmer for Java Platform SE 6	Sun Microsystems	April 2010

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