

Decebal Şuiu

Platform Architect & Open Source Technical Leader

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Platform architect and open source leader with 27+ years Java ecosystem expertise (JDK 1.0 → Java 21) creating frameworks that power enterprise systems worldwide. Creator of PF4J plugin framework (2,600+ GitHub stars) that powers Netflix's Spinnaker platform, Facebook's Buck build system (Java version), Huawei Cloud's real-time data processing systems, and Eclipse Foundation's automotive software platform. Experience in **capital markets technology** and **trading platforms** for global investment banks.

Key Achievements

- ▶ **#1 GitHub Java Developer (Romania) & #2 Trending Java Repository** globally (February 2016)
- ▶ **Created PF4J Plugin Framework** - powers plugin extensibility for Netflix's Spinnaker platform, Facebook's Buck build system (Java version), Huawei Cloud's MRS (MapReduce Service), and Eclipse Foundation's Connected Services Platform with **2,600+ GitHub stars**
- ▶ **Architected trading platform performance optimization** reducing startup time from 50 minutes to <1 minute (50x improvement) for high-volume trading client
- ▶ **Built trading platform infrastructure** serving investment banks through award-winning Itiviti platform (acquired by Broadridge for \$2.5B)
- ▶ **3x "Most Innovative Employee"** awards (2005-2007) for framework innovation and open source contributions

Technical Expertise

Platform Architecture: Microservices, Plugin Systems, Distributed Computing, Enterprise Integration Patterns, Agile Methodologies (Scrum, Kanban), High-performance system optimization

Java Ecosystem: Java 8-21, Spring Framework/Boot, JPA/Hibernate, Maven/Gradle, JUnit, Performance Optimization, JPMS (Java Platform Module System)

AI & Machine Learning: RAG, Vector Databases, Java AI Ecosystem (JLama, Spring AI, LangChain4J), Project Panama/Valhalla for inference, AI-assisted development, Technical evangelism, Cross-functional ML collaboration

Trading & Capital Markets: FIX Protocol, Market Data Systems, Investment Banking workflows, Real-time Processing, LMAX Disruptor, Ring Buffers, Order Management Systems (OMS), Bridge/Message Routing (Buy-side/Sell-side connectivity)

Database & Performance: MongoDB, PostgreSQL, SQL optimization, Caching (EHCACHE), Parallel processing, Transaction management, High-performance data sorting (TB-scale datasets)

DevOps & Infrastructure: Spring Cloud Config, Jenkins CI/CD, Docker (Cluster/Swarm), Git workflow, Continuous Integration, Liquibase, Kafka, WebSocket

Web Technologies: Apache Wicket, REST APIs/Swagger, JSON/XML, Angular, Microframeworks, SOAP Web Services

Professional Experience

Product Architect | Itiviti (Broadridge) | 2022 - Present

Trading Platform Infrastructure & Global Data Management for Major Investment Banks

- **Led critical technical research for Global Data Management (GDM) architecture** - a single entry point system aggregating multi-source data (users, clients, countries, trading calendars, market data) and distributing to downstream systems - as part of Itiviti's award-winning trading platform serving **24 of top 25 global investment banks**
- **Implemented critical performance optimization** reducing trading platform startup from 50 minutes to <1 minute (**50x improvement**) through two-phase approach: intelligent message filtering (quick win) and architectural redesign eliminating startup preprocessing by implementing direct Order object persistence with transparent initial population
- **Established popular AI developer community through #ai-dev channel**, leading Java AI ecosystem adoption and educating cross-functional teams on emerging AI technologies, ML collaboration, and best practices in enterprise environments
- **Developed multi-asset Order Management System (OMS) extensions** and **real-time order monitoring** capabilities for low-touch agency trading workflows in capital markets
- **Architected automatic database schema migration** and **business entity code generation** from JSON specifications (entities, REST services), enabling rapid platform evolution

Technologies: Java 21, FIX Protocol, Spring Boot, JPA/Hibernate, REST/Swagger, LMAX Disruptor, MongoDB, PostgreSQL, Liquibase, Docker (Cluster/Swarm), WebSocket, Kafka, Jenkins

Senior Java Developer | OneAdvanced | 2019 - 2022

Enterprise Platform Modernization & Performance Engineering

- **Led Java 8 to Java 11 migration** for large-scale enterprise application suite
- **Built high-performance data sorting engine** processing TB-scale datasets through multi-threaded chunk processing and parallel merge algorithms, replacing expensive external solutions
- **Architected COBOL Report Writer port** to Java using domain-specific language over JasperReports, enabling legacy system modernization
- **Implemented parallel data migration** using LMAX Disruptor for high-performance processing
- **Built code generation pipeline** from specifications using Xtext and Xtend frameworks
- **Secured microservices architecture** with JWT authentication and Spring Cloud Config integration across distributed systems

Technologies: Java 11, Spring Boot/Cloud, JPA/EclipseLink, AOP, LMAX Disruptor, JasperReports, Gradle, Angular, JWT, SOAP Web Services

Senior Java Developer | Infologic | 2016 - 2019

ERP Modernization & DevOps Infrastructure

- **Resolved enterprise ERP dependency crisis** that defeated previous attempts - created custom static analysis tool to map complex JAR relationships across massive codebase, then implemented Apache Ivy automation eliminating conflicts and duplicate libraries
- **Established enterprise DevOps pipeline** with Jenkins multi-node setup, GitLab integration, and SonarQube code quality gates
- **Created centralized data vault system** aggregating ERP data across implementations for AI-driven process optimization and analytics
- **Led migration from CVS to Git** and implemented Artifactory for artifact management with automated backup and versioning strategies

Technologies: Spring Framework, Hibernate, Apache Ivy, Jenkins, GitLab, REST APIs, Maven, SonarQube, Artifactory

Senior Java Developer & Technical Lead | Advantage Software Factory | 2004 - 2016

Framework Architecture & Product Development

- **Created company-wide development framework** serving as foundation for all enterprise products with modular architecture and reusable components
- **Built integrated CI/CD pipeline** with Hudson/Jenkins and dependency management via Maven/Ivy, establishing automated testing and deployment practices
- **Developed horizontal services architecture** (Security, Persistence, Reporting, Build/Deploy) for Vodafone Retail System and major enterprise clients
- **Led NextReports open source project** - now leading alternative to Jasper Reports/IBM BIRT with global adoption
- **Technical recruiting leadership** for Java positions and mentoring of development teams with focus on knowledge transfer, best practices, and code quality standards

Technologies: J2EE, Spring Framework, JPA/Hibernate, Apache Wicket, Jersey, Quartz, Maven, Oracle, JBoss, Agile methodologies

Senior Java Developer | Adcon Telemetry | 1999 - 2003

Distributed Systems & Enterprise Application Server Development

- **Architected foundational application server** with core enterprise services (Naming/Directory, Persistence, Security, Database Connectivity, Extensions) - comparable to contemporary WebLogic/Orion servers
- **Designed comprehensive monitoring suite** (Log Monitor, User Monitor, Thread Monitor) for mission-critical agricultural and water management systems
- **Implemented enterprise licensing system** with copy protection, host dependence, and user/device limitations for commercial software distribution
- **Built XML-based communication protocols** for National Informatics System (Ministry of Agriculture) enabling government data integration

Technologies: RMI, Distributed Computing, Java 2D, Servlets, JDBC, XML, UML, Design Patterns

Software Engineer | Romanian National News Agency (AGERPRES) | 1998 - 1999

Real-time News Distribution & Satellite Data Processing

- **Designed and implemented cutting-edge national real-time news distribution system** for Romanian National News Agency (AGERPRES) using satellite data feeds and Java technology
- **Built competitive alternative to Castanet/Marimba and Startbust solutions** with superior performance and lower costs
- **Pioneered push technology with reliable multicast transmission (LRMP)** and distributed computing architecture for real-time satellite data processing
- **Developed heterogeneous system serving TV stations, radio stations, and newspapers** with automatic news grouping and subscriber distribution nationwide

Technologies: Java, LRMP (multicast protocol), RMI, Distributed Computing, Swing, Satellite Communications, Serial I/O

Open Source Leadership

PF4J - Plugin Framework for Java

Creator & Maintainer | 2014 - Present

github.com/pf4j/pf4j | pf4j.org

- **2,600+ GitHub stars** - most adopted Java plugin framework alongside OSGi with global enterprise adoption
- **Major enterprise adoption:** Powers plugin extensibility for Netflix's Spinnaker platform, Facebook's Buck build system (Java version), Huawei Cloud's MRS (MapReduce Service) for real-time data processing and scoring systems, and Eclipse Foundation's Connected Services Platform (ECSP) for automotive software-defined vehicles
- **Lightweight architecture:** 100KB footprint with minimal dependencies, enabling monolith-to-modular transformations without major refactoring
- **Active ecosystem:** 8+ extension projects, comprehensive documentation, and active community with regular releases and support

Pippo - Micro Web Framework

Creator & Maintainer | 2014 - Present

github.com/pippo-java/pippo | pippo.ro

- **#2 Trending Java repository globally** (February 2016) with rapid community adoption and recognition
- **Ultra-lightweight:** 140KB core with modular architecture supporting multiple servers and template engines for flexible deployment
- **Production-ready:** Complete ecosystem with dedicated documentation site, demo applications, and enterprise usage examples

Java AI Demos

Technical Explorer & Community Builder | 2024 - Present

github.com/decebals/java-ai-demos

- **Practical demonstrations** of AI integration in Java ecosystem with focus on developer productivity and inference optimization
- **Community building** through knowledge sharing, cross-functional collaboration with ML engineers, and technical evangelism initiatives
- **Enterprise AI adoption** guidance covering RAG implementations, vector databases, and production deployment strategies

NextReports

Creator & Technical Lead | 2006 - 2016

github.com/nextreports

- **Leading open source reporting suite** used worldwide as alternative to Jasper Reports/IBM BIRT
- **Enterprise adoption:** Alternative solution for ad-hoc query and reporting across multiple industries

Education

Diplom Engineer in Computer Science | Polytechnic Institute of Bucharest | 1993 - 1998

Thesis: Image processing application using vectorial quantum algorithms (Java JDK 1.1) - early adoption of Java technology in academic research

Additional Information

Languages: Romanian (native), English (professional working proficiency)

Interests: Woodworking (carpentry, sculpture), Archery, Chess, IoT/Home automation, Robotics

Open Source Philosophy: 10+ years of community contribution, mentoring, and ecosystem building with focus on developer productivity and enterprise adoption

Technical Evangelism: AI adoption initiatives, cross-functional collaboration, and knowledge sharing across engineering teams