

Jesse Sightler
Senior Principal Software Applications Engineer

Experience Summary:

Senior Java developer with over 25 years of experience in designing, developing, and deploying scalable distributed systems, proficient in leading teams and complex projects, with a growing focus on middleware development and machine learning applications.

General Experience:

2018 - 2025	Red Hat IT - Enterprise Application Integration
2014 - 2018	Red Hat Engineering - Middleware Migration Tooling
2011 - 2014	Red Hat Consulting
2009 - 2011	Scientific Research Corporation, Software Engineer III
2001 - 2009	MicroD, Inc., Lead Developer
1999 - 2001	Usermagnet.com, Software Engineer

Specialized Experience:

2018 - 2025 Red Hat IT, Enterprise Application Integration

- Led a team building applications to support the enterprise via both synchronous and asynchronous integrations
- Worked with all phases of development for multiple integration applications
- Mentored new engineers
- Implemented gitops with Argo CD and custom plugins to insure compliance with company change control and internal audit requirements
- Managed tech debt within the backlog to insure that our applications remained free of security and maintenance related issues
- Deployed all applications on multiple OpenShift clusters for high availability
- Developed fake services for automated testing of our integrations with salesforce to ease regression testing during component upgrades
- Messaging Platforms
 - Kafka
 - Active MQ
- Application Platforms and libraries:
 - Spring Boot
 - Quarkus
 - Python - FastAPI

2014 - 2018 Red Hat Engineering, Middleware

- Led a team of software engineers building an application to assess application for migrations to JBoss middleware (Enterprise Application Platform)
- Assisted new team members in getting up to speed on the code

- Triaged bugs and worked to maintain the product backlog using Scrum
- Worked with product stakeholders to prioritize features for future releases
- Technologies used:
 - OpenShift
 - Java
 - JBoss
 - Angular

2011 - 2014 Red Hat Consulting, Consultant

- Mentored a team of 4 developers in JSF, RichFaces, JBoss, and JBoss Seam in order to develop a medical examiner registry for the FMCSA (Federal Motor Carrier Safety Administration)
- Assisted in the development of a scripting system to automate the deployment of pre-accredited Red Hat Enterprise Linux virtual machines within the DoD
- Developed a Richfaces and JSF-based frontend for a prototype PaaS (Platform as a Service) system

2009 - 2011 Scientific Research Corporation, Software Engineer III

- Java server-side components using Spring, Hibernate, and Java EE technologies.
- R&D involving semantic web technologies, including RDF, OWL, RDF/XML, Turtle, Ntriples, etc.
- Triple-store research and development (Allegrograph versions 3 and 4, Jena SDB/TDB, Virtuoso).
- Advanced data integration research using RDF technologies, including RDF View technologies (D2RQ, Virtuoso RDF Views) for integrating disparate datasources.
- Worked with the Spring Integration ESB for integration with an XQuery based datasource
- Developed authentication systems using LDAP, Spring-LDAP, Spring Security, tied these into a Flex application, and added RBAC to the application's service endpoints
- Implemented prototype SAML authentication via Spring SAML extensions, as well as researched SAML/SASL integration in support of SSO for XMPP.
- Developed flash based components for XMPP-based chat, as well as server components for integrating group-based chat information with a COTS XMPP server.

2001 - 2009 MicroD, Inc., Lead Developer

- Responsibilities include the analysis, design, development, and testing for a system to electronic purchase orders and other business documents between trading partners, via the Internet.
- The custom EDI translator utilizes a custom client-side, service-based Java application to manage transactions with the EDI messaging servers via a custom protocol over HTTPS. Designed and implemented a GWT-based customer service portal for high priority

clients.

- Developed messaging servers with our custom wire protocol, as well as the open AS2/SMIME standard for internet EDI to securely communicate with trading partners over HTTP/HTTPS. Previous versions used the FioranoMQ messaging (JMS) server for message handling. The EDI system provides reliable delivery for a large volume of transactions between several hundred trading partners on a daily basis.
- The messaging servers are written using Java Servlets, with an Echo2 based GUI running on the Jetty Servlet container. The messaging servers themselves communicate with a cluster of transaction processing systems running on JBoss, and are backed by a PostgreSQL database.
- Transactions are processed via XSLT stylesheets within the Java EE server (JBoss). Continuous health monitoring is provided by a custom JSF/IceFaces based application running on Tomcat that continuously monitors all transaction servers via remote webservice calls (SOAP via Apache Axis). The application health monitoring system also uses the JavaMail APIs to continuously monitor, auto-reply, and organize incoming support requests. Persistence is provided by an embedded Hibernate instance, with Seam for dependency injection and security.
- Developed a Java application (XFT) using Swing for managing several hundred file transfer process scripts, as well other scripts for managing daily transactions. The XFT application is a modular, plugin based application that exposes service monitoring to insure that transfers happen in a timely and error-free manner.
- The company also had a line of furniture visualization products. I was involved in numerous backend systems for this as well several aspects of web interface development. Developed a data import system, with a graphical mapper, in C++/MFC for bringing data into the Firebird database from custom spreadsheets.
- Developed a combiner module for combining databases from the separately maintained catalogs (roughly one catalog per database) into the central database for the website (all catalogs in one database). Developed numerous tools to assist with merging MicroD maintained data with data maintained directly by our customers.
- Assisted in the porting of the visualization website from Java to C#. Developed numerous enhancements to the furniture visualization website, including an advanced color search, as well as a custom Adobe Flash-based Zoom control.

1999 - 2001 Usermagnet.com, Software Engineer

- Developed a system for extracting news headlines that was used to harvest data from over 6000 websites into a central database.
- Developed a number of screen scraping approaches using Regular Expressions, as well as custom-developed template matching approaches to extract news content from many, widely varied news websites.
- Developed an editor, using Java Servlets, XML, and XSL technologies, for managing news sources.
- Developed a comparison shopping engine for searching a variety of online booksellers.
- Assisted in the development of a homegrown JDBC/SQL ORM system for the DB2 news database of over 7 million articles. Each incoming article was placed into a JMS Queue (Fiorano) for processing by a news alerts system which regularly emailed notifications of

- relevant stories per user requests.
- Developed many of the frontend systems for the Orion Application server based web frontend.

Education: University of South Carolina Upstate, Bachelor of Science, Computer Science, 2001

Special Qualifications:

Programming Languages: Java, JavaScript, Typescript, Python, C#, C++, XSLT

Frameworks and Libraries: Quarkus, Spring Boot, Angular, Hibernate, JBoss, Wildfly

Messaging and Integration: Camel, ActiveMQ, Kafka

Databases: PostgreSQL, Oracle,, MySQL

Gitops: Argo CD, Tekton, Hashicorp Vault

Container Orchestration: Podman, Docker,, Openshift, Kubernetes

ML Tools: PyTorch, Huggingface Transformers, PEFT