

# JOHN SHEPPARD

## Expert Software Engineer V

### SUMMARY

Software Engineer with over 15 years of experience, possessing a Bachelor's degree in Mechanical Engineering and Computer Science. Expertise includes Java, JavaFX, RESTful APIs, multithreading, and UI frameworks. Established track record in database optimization and system integration, having resolved critical memory leaks and threading issues, and refactoring database layers for increased performance. Proficient in Agile SDLC, with a successful transition from SVN to Git. Key projects include developing utility applications for certified election result dissemination and performance enhancements in complex software systems.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Java (15 yr.), Java Swing, JavaFX, Hibernate
<b>Programming Languages</b>	Java (15 yr.)
<b>Java Libraries and Tools</b>	EJB, Jasperreports, JavaFX, Java Swing, JMS
<b>Java Frameworks</b>	Hibernate
<b>.NET Platform</b>	MS Dynamics 365
<b>Ruby Frameworks</b>	Ruby on Rails
<b>Databases &amp; Management Systems / ORM</b>	Flyway, Hibernate, PostgreSQL, relational databases, SQL, SQLite
<b>Amazon Web Services</b>	AWS EventBridge
<b>Methodologies, Paradigms and Patterns</b>	Agile
<b>Message/Queue/Task Brokers</b>	Apache ActiveMQ
<b>QA, Test Automation, Security</b>	Apache Maven
<b>Scripting and Command Line Interfaces</b>	Bash
<b>Version Control</b>	BitBucket
<b>Third Party Tools / IDEs / SDK / Services</b>	Eclipse
<b>SDK / API and Integrations</b>	Facebook Auth, Winforms

<b>Web/App Servers, Middleware</b>	IBM WebSphere Application Server, JBoss
<b>Deployment, CI/CD &amp; Administration</b>	Jenkins, New Relic
<b>Collaboration, Task &amp; Issue Tracking</b>	Jira
<b>File Systems, Storage</b>	Protobuf
<b>Other Technical Skills</b>	APM

## WORK EXPERIENCE

### Engineering Manager, Version Control System Migration

**Duration:** 01/2016 - 01/2020

**Summary:** Migration from SVN to Git integrating Bitbucket and JIRA

**Responsibilities:** Led the team in the source control migration process and integration with other tools to improve collaboration and development cycles.

**Technologies:** SVN, Git, Bitbucket, JIRA

### Engineering Manager, Event Synchronization Mechanism

**Duration:** 01/2016 - 01/2020

**Summary:** Development of event sync mechanism and data consistency achievement

**Responsibilities:** Engineered an event synchronization mechanism, achieving real-time data consistency across election workstations.

**Technologies:** ActiveMQ, Guava EventBus

### Engineering Manager, Election Result Transmission Utility

**Duration:** 01/2016 - 01/2020

**Summary:** Utility applications development for certified election result generation and transmission

**Responsibilities:** Developed utility applications to generate and transmit certified election results to Secretaries of State, ensuring compliance with regulatory standards.

**Technologies:** Java

### Engineering Manager, Custom Reporting for Election Audits

**Duration:** 01/2016 - 01/2020

**Summary:** Custom reports design and deployment for state-level audits

**Responsibilities:** Designed and deployed custom reports to improve the clarity and accuracy of election result presentations for state-level audits.

**Technologies:** JasperReports, DynamicReports



## **Software Engineer V, FlytUI Performance Optimization**

**Duration:** 06/2020 - Present

**Summary:** Critical issues resolution and FlytUI performance optimization

**Responsibilities:** Resolved critical memory leaks and threading issues, refactored and optimized database layers, and developed database migration scripts for system stabilization and performance enhancement.

**Technologies:** FlytUI, H2, SQLite, Flyway

## **Software Engineer V, FlytUI Enhancements and Installer Updates**

**Duration:** 06/2020 - Present

**Summary:** FlytUI enhancements and legacy system maintenance

**Responsibilities:** Engineered enhancements to FlytUI, including the integration of target reconciliation features and custom modifications. Maintained and updated legacy and modern installer systems.

**Technologies:** FlytUI, NDIS

## **Senior Software Engineer, Enterprise Service Bus Integration**

**Duration:** 01/2012 - 01/2016

**Summary:** Enterprise service bus development for internal and external system integration

**Responsibilities:** Developed enterprise service buses to integrate Oracle RMS with multiple internal and external systems, contributing to improved business process automation and data consistency.

**Technologies:** Oracle RMS, Vaadin

## **Senior Software Engineer, Software Development Process Improvement**

**Duration:** 01/2012 - 01/2016

**Summary:** Initiatives to improve software development practices

**Responsibilities:** Led initiatives to enhance software development practices, including the establishment of pull request workflows and Eclipse plugin enhancements to strengthen version control protocols.

**Technologies:** Eclipse, Pull Request Workflows

## **Senior Software Engineer Team Lead, PracticeDirector EHR Enhancements**

**Duration:** 01/2008 - 01/2012

**Summary:** EHR system enhancements and backend deployment

**Responsibilities:** Directed enhancements to the PracticeDirector EHR system and maintained JBoss server installers, authored PostgreSQL database objects and Hibernate mappings, and led technical support teams.

**Technologies:** Swing, JBoss, PostgreSQL, Hibernate



## EDUCATION

- **Bachelor of Science**
- Mechanical Engineering, Computer Science University of Houston
- 1980 - 1983
- **Airborne Computer and Switching System Specialist**
- 1986 - 1990

## CERTIFICATION

- **Afsc Computer Programming**
- Airco Computer Learning Center

