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

Main Technical Skills	Java (15 yr.), Java Swing, JavaFX, Hibernate
Programming Languages	Java (15 yr.)
Java Libraries and Tools	EJB, Jasperreports, JavaFX, Java Swing, JMS
Java Frameworks	Hibernate
.NET Platform	MS Dynamics 365
Ruby Frameworks	Ruby on Rails
Databases & Management Systems / ORM	Flyway, Hibernate, PostgreSQL, relational databases, SQL, SQLite
Amazon Web Services	Amazon EventBridge
Methodologies, Paradigms and Patterns	Agile
Message/Queue/Task Brokers	Apache ActiveMQ
QA, Test Automation, Security	Apache Maven
Scripting and Command Line Interfaces	Bash

Version Control	BitBucket
Third Party Tools / IDEs / SDK / Services	Eclipse
SDK / API and Integrations	Facebook Auth, Winforms
Web/App Servers, Middleware	IBM WebSphere Application Server, JBoss
Deployment, CI/CD & Administration	Jenkins, New Relic
Collaboration, Task & Issue Tracking	Jira
Other Technical Skills	APM, Protobuf

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