

Fort Worth, TX
@ZacharyCalvert

Zach Calvert

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Full-Stack Software Engineer

SUMMARY

Skilled Software Engineer focused in full-stack development using primarily Java technologies with experience in Agile methodologies, Continuous Integration, RESTful services, Atlassian utilities, unit testing, performance testing, Linux server diagnostics, cloud server virtualization, and requirement analysis.

PROFICIENCIES

Java - 11 years

Spring, Spring Boot, Ehcache, Hibernate, OSGi, JUnit, CXF, JDBC, ServiceMix, Maven, JMockit, Camel, Groovy, Gradle, Spock

Atlassian Development Utilities - 7 years

BitBucket, Jira, Bamboo, Confluence, FishEye

Message Queuing Systems - 5 years

RabbitMQ, ActiveMQ, Tibco

SQL - 12 years

Oracle, MySQL, PostgreSQL, MS SQL Server

Continuous Integration - 5 years

Jenkins, Bamboo, Hudson, Automated Deployment

NoSQL - 2 years

MongoDB, Redis, Cassandra

Virtualization - 4 years

Amazon EC2, Heroku, Docker, Ansible, Vagrant, VirtualBox, VMware vCloud

Linux - 5 years

Server management, bash scripting, installation, performance monitoring

Development Toolkits - 12 years

Git, IntelliJ, Eclipse, Subversion, Ant, SecureCRT, Babun, Cygwin

Front-End Web - 3 years

ReactJS, Bootstrap 3, Angular 2, Jasmine, JQuery, Javascript, HTML 5, CSS

Security Mitigation - 8 years

SSL, WireShark, salted hashing/encryption, firewall configuration

Server Clustering, Scaling, and Disaster Recovery - 8 years

REST-based cloud scaling, Geo-redundancy, recovery analysis

Performance Testing - 5 years

JMeter, Artillery, Thread Dump Analyzer, Garbage Collection Viewer, JConsole

Endpoint Management - 3 years

APNS, GCM, XMPP, Ejabberd, Erlang

EXPERIENCE

Spireon

Irving, TX

July 2016 - Current

Joined a Spring Boot Microservice REST API software team developing, testing, and reviewing security for services deployed on Amazon AWS as a Senior Software Engineer.

JWT Identity Management

3 Months, Agile

RESTful security transition to JWT identity services served via a Tyk Gateway and locked down using nginx reverse proxies. Responsible for implementation of the caching integration to Redis and ehCache on a Java 8 Spring Boot microservice, with a JPA based MySQL integration. Personally achieved 80% unit testing coverage of both lines and branches with cobertura code coverage delivered via Jenkins CI builds. Unit testing with JUnit 4, using the Spring JUnit class runner. Implemented CXF REST services. Localized authentication and principal managed via Spring Security. Negative tests, security tests, and integration tests executed using the NodeJS Frisby module. Worked directly with QA engineering staff for performance testing using the NodeJS Artillery module.

Platform API

3 months, Agile

RESTful service managing vehicle asset exposure and geo-locational data. Responsible for reviewing the existing Elastic Search integration, improving search behavior, and providing business logic testing to available searches. Improved both unit testing code coverage, negative test case coverage, and security testing using Frisby and JUnit 4. Aided in improving the gradle build process and improving Jenkins CI builds and automated integration testing.

TEKsystems

Dallas, TX

March 2016 - July 2016

Contractor for TEKsystems as Java Technical Lead at Southwest Airlines HQ serving a team of developers managing a passenger data service which exposes Oracle persisted content via SOAP APIs and updates the same data warehouse via consuming messages off of a bridged Tibco Message Queue built on JMS.

Python Automation Initiative

3 Months, Iterative

Personally recognized an opportunity to improve speed of delivery and reduce manual error with automation of an internal deployment process. Using Python, an error prone deployment involving manual HTML form submission reduced team's involvement by 35 man -hours per week.

PDS Retirement

3 Months, Waterfall

Participated as technical lead of support staff to aid in monitoring of a migration and retirement of an XML warehouse.

Xpressdocs

Fort Worth, TX

July 2015 - March 2016

Joined a print firm delivering integration solutions to digital print equipment for real estate marketing, business cards, and advertising campaigns.

*JDserv**6 Months, Iterative*

Responsible for assisting the migration of a team from waterfall development to Agile Methodologies. Provided development leadership in updating products from Java 6 to Java 8, Ant to Maven, develop CI and CD Jenkins builds, work with IT to deliver JMX monitoring touch points, and aid in developing a Jira workflows.

*MelissaData Smart Mover**1 Month, Waterfall*

Independently developed an integration service that provided a 750% performance improvement in CASS and NCOA address validations using a producer/consumer design pattern over REST API. Provided a JAR artifact deliverable with 97% code coverage and end-to-end integration tests against a public sandbox test service.

Alcatel-Lucent, Contractor

Austin, TX

June 2009 - April 2015

Provided software contracting services for the telecommunication industry including endpoint management, mobile services, and electric smart metering network solutions.

*Mobile Push Services**4 Months, Agile Project*

Designed and implemented integration services for notifying mobile customers of service outages based on network diagnostics and manual batch notifications. Integrations provided for both Google Cloud Messaging and Apple Push Notification Service. Responsibilities included architecture, implementation, unit testing, performance testing, integration testing, and installation scripting for Linux servers.

*Smart Device OSGi Services**24 Months, Agile Project*

Designed and implemented REST API services for mobile and browser based applications allowing us to reach new customer bases, including the electric smart metering device market. Responsible for server implementation, requirement gathering, performance testing, security testing, Linux installs, and service design.

*Endpoint Communication System**6 Months, Agile Project*

Designed and developed Spring-DM OSGi Apache ServiceMix bundles for a push notification architecture supporting PC, Mac, and mobile platforms expanding client installations by hundreds of thousands of units. Responsibilities included server design, implementation, unit testing and directing remote test staff for QA testing and performance testing.

Client Application Framework

15 Months, Agile Project

Developed a PC solution for an application store built on top of OpenJDK and the Apache Felix OSGi stack. Responsibilities included implementation of a locally installed Jetty client service for accessing PC help flows and account management.

Broadband Care Manager

6 Months, Agile Project

Provided support in moving the legacy EAR project suite from manually built to a robust Maven build system centered upon a subversion repository with Atlassian build and project management tools. Improved in-house Eclipse RCP workflow utility and reduced user installation errors with a newly developed NSIS installer.

TransUnion

Austin, TX

Jan 2005 - April 2009

Developed flood research solutions as well as automated home valuation software for real estate and credit reporting industries.

Hornet

12 Months, Iterative

Improved automation output by a factor of 5,000 reducing hardware cost and improving customer feedback with faster turnaround for batch requests. Major factors contributing to the improvement included a new geospatial indexing architecture, custom RAM management, and multi-threading techniques.

Hard Rain

24 Months, Iterative

Developed a flood research application integrating many different data providers into an Eclipse RCP (OSGi) based application. Provided map synchronization and various research and geospatial toolsets to achieve pinpoint accuracy for floodplain identification.

EDUCATION

University of Texas at Arlington

Jan 2000 - Dec 2004

Graduated summa cum laude with a Bachelor of Science in Software Engineering