Jerrad Peterson

Phone: (913) 907-7992

Email: jerrad.peterson@gmail.com

LinkedIn: <https://www.linkedin.com/in/jerrad-peterson>

# Summary

**Principal Build & Release Engineer** with **20-year experience** with end-to-end build system architecture design and implementation skills, CI/CD build system improvement and automation with DevOps principles supporting large application development teams. Change\Configuration management process implementation. Industry experience spans Governance, Risk Management and Compliance (GRC), Telecommunications and Tax Services. Excellent communication skills, junior team member mentoring with project and team leadership. Technical training and documentation experiences. Ability to self-guide to complete tasks in a timely and efficient manner delivering high performing results.

# Core Competencies

Agile Development

Application Support

Automation Scripting

Batch File Scripting

Client Relations

CMMI

Code Repository Migration

Configuration Management

Development Team Support

DEV/Test/Prod Environments

Applied DevOps Principles

GRC

ITIL

JIRA Administration

Project Leadership

Team Mentoring

Processes & Procedures

Release Management

Metric Reporting

SLDC

Systems Migration

Technical Documentation

Test Planning/Execution

Technical Troubleshooting

Wiki Documents

# Application Toolset

AWS Cloud Infrastructure

Team Foundation Server (TFS)

Visual Studio

Perforce

Git/GitHub/GitLab

FinalBuilder

Artifactory

Continua CI

Checkmarx

Docker/Docker Swarm

Fortify Static Code Analyzer

MSBuild/MSTest

Windows OS

Windows .NET

Linux OS

Jenkins Admin and Configuration

PagerDuty

Vitria BusinessWare

BlackDuck Scans

SonarQube

Confluence (Wiki)

# Experiences

## Principal Release Engineer

RSA Security, Overland Park, KS (June 2010-February 2021)

Build/release engineer for Archer, an international, Fortune-500 creator of a Governance, Risk Management and Compliance (GRC) Framework application.

Member of a Software Infrastructure Services team to support the installation and administration of the CI/CD pipelines to deliver the applications with the highest quality and reliability. Specific tasks included:

* Supported the end-to-end build and release process of monthly major/minor patches developed from feature/patch/mainline branches including hundreds of builds daily
* Continuously automated or simplified the CI process by utilizing DevOps practices and mentalities to deliver software code faster and with higher quality
* Process improvement for the SDLC including:
  + Integration of Docker containerization to Jenkins CI/CD pipeline to dramatically improve concurrent build scalability
  + Built Jenkins pipelines and docker agents to support the custom needs of the engineering organization
  + Security and code quality improvements for the pipelines which included the addition of multiple scanning stages for vulnerabilities, SCA, and code signing
  + Administration of Artifactory for all package management sources
* Assisted with the shift from on-premise infrastructure to AWS cloud-based software services which were incorporated into the CI/CD pipelines. Artifactory, SonarQube, Checkmarx as a service
* Reduced QA testing time and increased defect resolution by connecting source code commits to JIRA. Sonarqube Pull-Request decorations for faster feedback on code quality
* Co-lead on the migration project from TFS to GitHub/GitLab and the ongoing conversion to those SCM tools
* Immediate build system and developer support for an organization of over 200 engineers which included assistance with build configuration\code check-in\environmental\networking issues
* Responsible for resolution of user submitted Jira tickets for thousands of tickets over the course of tenure
* Systems administration of dozens of Linux/Windows VMs which executed the entire CI/CD process including OS upgrade and patch management solutions
* Experience with VMWare VM creation/management and assisted Lab services team with networking and other server related communication protocols

## Sr. Software Engineer

H&R Block, Kansas City, MO (August2005-May 2010)

Member of the enterprise Software Configuration Management team, responsible for build and deployment of over 15 applications supporting the tax and financial services industry. Team leader.

* Implemented Team Foundation Server, consolidate tax application’s source code into managed version control system. For the first time, changes were tracked, and versions verified at release
* Created and implemented release management deployment processes (based on ITIL/CMMI) Compiled all development changes with build notes, enforced proper check-in/check-out procedures, and ensured defect ID assignments with best change management practices
* Developed a series of automated build tools for various platforms (.NET, Delphi, java, and Tibco), reducing build time and build errors
* Deployment and implementation of an automated tax software installer\updater for all remote tax offices

## Consultant - Contractor

Information Technology Group, Kansas City, MO (May 2004-August 2005)

AdamsGabbert, Lee’s Summit, MO (October 2003-January 2004)

Contracted to Sprint to perform following:

* Execute and improve daily code builds of core applications
* Develop and support appropriate testing environment infrastructure
* Test and validate customer data after Sprint’s conversion to a new billing system (Convergys-P2K to Amdocs-Ensemble). Created a process for validating customer data post-conversion, and trained others to execute the process

## Systems Analyst

ACCENTURE, Overland Park, KS (September 1998-September 2002)

Contracted to Sprint for a variety of telecommunications projects. Stand-out projects included:

* **Circuit-to-Packet (C2P) Network Conversion**: Facilitated the design of a data migration process which moved customer data to a new platform, developed functional and testing requirements, and procured appropriate software and utilities for development team
* **Configuration Management Tool Selection and Implementation**: Researched configuration management applications that could centralize data center hardware information for 1,400 servers running 6 mission-critical applications in 7 distinct environments. Created server-based disaster recovery scripts which collected data later used to simplify enterprise retrieval after the new tool was implemented
* **3G Network Testing Trials**: Part of a team that tested coverage of the new 3G network. Used laptops, antennas and a van to record the performance of Qualcom/Motorolla handsets along the network. Performed hundreds of real “over-the-air” environment test cases, designing the test scripts, documenting the issues, coordinating vendors, engineers, and management to resolve the issues, and documenting the results for management review.

# Education

## BS-Mechanical Engineering, 1998

University of Missouri-Columbia

# Certifications

## ITILv3 Foundations, 2011

Certified by EXIN

## Optimizing the SLDC with MS Visual Studio Team System, 2007

Certificate issued by New Horizons Computer Learning Center