JASON JACK

SENIOR SOFTWARE AND SERVICES ENGINEER

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Summary

Senior Software Engineer

Eight years of experience in designing and maintaining advanced solutions for MongoDB, MariaDB, and custom databases.

Innovative Services Engineer

Innovating enhancements in DevOps environments and high availability, virtual developer workspaces with a focus on scalability and security.

Dedicated Technical Lead

Managing small teams of engineers through Development, Test and Integration, and product Delivery across multiple DoD contracts.

Technical

Java & Groovy	HTML5/CSS3/Javascript	NodeJS & ReactJS
C & C++11	Git & Subversion	Linux (RHEL, CentOS, Mint)
MongoDB	MariaDB	Gradle, Maven, Make & CMake
GitLab	Jenkins	Docker
Qemu KVM	Marathon + Mesos	oVirt

Experience

Lockheed Martin

Data Storage Developer — **2009 - Current**

Maintained a custom, Java-based Data Storage Service handling Terabytes of streaming sensor data across a distributed network. Implemented design improvements in multiple iterations of software deliveries within 80% of allocated budgets, and improved read performance by 200% and write performance by 50%.

Modern Storage Solutions — **2016 - Current**

Implemented a new, low-latency video streaming database using Java+Jetty, MongoDB, and HDFS yielding a 300% improvement over the existing storage solution in throughput and latency in write operations.

Services Lead — **2016 - Current**

Innovated new DevOps environment for a common Development and Production platform using GitLab, Jenkins, Artifactory, Gradle, and Docker. Lead team of four developers through SCRUM Agile development, creating an environment that functions to scale, and yields an 85% reduction in build time.

Infrastructure Developer — **2016 - Current**

Lead team of Services, Infrastructure, and IT engineers through procurement of cluster hardware to design a RHEL oVirt cluster to improve our DevOps environment. The design reduces hardware costs by 50-75% for delivering new products while improving High Availability and Data Recovery strategies.

Research and Development Engineer — **2016 - Current**

Implemented new data processing cluster using Spark/Hadoop, Marathon/Mesos, KVM, Docker, and Open vSwitch, tailored to optimize performance for virtualization of Acoustic Intelligence software platforms. Designed improvements over previous model to increase cluster durability and scalability as new hardware was added.

Awards

Lockheed Martin SPOT Awards

Modernizing Legacy Code — **July 2014**

Improved code sharing between large contracts, drove down Development costs by migrating legacy software to a modern toolset using Git.

Product Delivery Improvements — **May 2016**

Improved product delivery methods by implementing a utility which coordinated and executed builds of over 90 Git repositories in proper sequence, generating build and changelogs for customer review.

Education

Rochester Institute of Technology

Bachelor of Science in Computer Engineering — **Rochester, NY - October 2009**