Rajkumar Devaraveni

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PROFILE SUMMARY

A seasoned and innovative Engineer with deep expertise in build and release, devops, site reliability engieering. Proven hository of optimizing software developement processes by designing and implementing robust CI/CD pipelines that dramatically reduce release cycles and elevate system reliabilty. A collaborative team leader who provides expert build support and troubleshooting of development teams, known for driving continuous improvment and delivering scalable, high-performance solutions in dynamic environments. Proficient in automating deployment procedures, enhancing operational efficiency, and ensuring seamless integration between development and operations. Adept at applying SRE principles to enhance system observability, define and track Service Level Indicators (SLIs) and Service Level objectives (SLOs), develop effective monitoring and alerting strategies, and lead comprehensive incident response.

TECHNICAL SKILLS

- **Operating Systems:** Linux, Windows, Mac
- **CI/CD:** Jenkins, Gitlab CI, GHA, Argo CD
- **DVCS:** SVN, Perforce, Git
- **Scripting Languages:** Bash, Groovy, Python
- **Containers:** Docker, Kubernetes

- **Cloud:** AWS, GCP, Azure
- **Build tool:** Make, CMake,Yocto, Bezel,Gradle, Maven
- **Monitoring:** DataDog, Grafana, Nagios, New Relic
- **Security:** SonarQube, Qualys
- **Bug tracking/PM:** Atlassian tools (JIRA, confluence)

SKILLS HIGHLIGHTS

- CI/CD Automation
- Infrastructure as Code (IaC)
- Version Control Systems
- Deployment Automation
- Continuous Integration (CI)
- Solution Architecture
- Build automation

- Release Management
- Scripting (Python, Bash)
- Configuration Management
- Containerization
- Cloud Platforms
- Software Development
- On-call & Incident Response

- Collaboration Tools
- System Reliability Engineering
- Infrastructure Monitoring
- Security Best Practices in DevOps
- Agile & Scrum Methodologies
- Cross-Functional Collaboration
- Technical Mentorship

WORK EXPERIENCE

Senior Build Engineer   **Sept. 2021-Present**
Sonos, Inc., Boston, MA

- Designed and implemented advanced workflow automation solutions, incorporating source control management, continuous integration, artifact management, and release systems for multiple NPI projects.
- Developed comprehensive software build tooling applications across Mac, Windows, and Linux platforms, leveraging python and BASH. Implemented Static Application Security Testing (SAST) analysis for all Yocto recipes, ensuring robust security measures and reducing vulnerabilities.
- Established self-hosted GitHub runner build machines, enhancing support for Developer CI builds through PR gating, which improved build efficiency. Led efforts in Continuous Integration and Deployment Systems using Jenkins and GitHub Actions, improving artifact and release management systems and streamlining deployment processes.
- Organized Jenkins instances (JenkOps) with JCasC on Kubernetes clusters, providing a dedicated CI/CD tool for projects, which streamlined the deployment process and improved project delivery timelines.
- Utilized collaborative tools such as GitHub, JIRA, Confluence, Slack, and Google Suite, alongside internal Python scripts, to successfully package and publish software releases, enhancing release efficiency.
- Integrated a CI visibility plugin with Jenkins and GitHub Actions runners for real-time performance insights and implemented monitors on business-critical applications to automatically page engineers.

Build/DevOps Engineer - III   **Jun. 2017-Sept. 2021**
Stratus Technologies, Inc., Maynard, MA

- Spearheaded Jenkins implementation for continuous integration and continuous deployment, crafting custom jobs and pipelines with Bash/Python scripts and AWS CLI to automate infrastructure provisioning.
- Administered JIRA/GitHub, creating tailored workflow schemes and Jira workflows for seamless sprint releases and auto-updates of release notes.
- Maintained over 99% uptime and accelerated deployment turnaround by developing and optimizing infrastructure, server, and deployment strategies.
- Orchestrated the building, automation, configuration, optimization, and scaling of 500+ servers (VM/physical), overseeing 20+ internal applications.

- Developed CI pipelines through Jenkins for each micro services (40+) which is connected to Spring boot application and Implemented auto deployments within the DMZ Pre PROD environment
- Implemented auto golden, recovery and factory images by using clonezilla Live server on booting pxe using uefi boot loader for IoT devices with multiple platforms and multiple disk images sda and nvme.
- Implemented auto-provisioning of EC2 instances (Linux, Windows, Mac build nodes) through packer scripts, streamlining deployment processes.

Build and release/DevOps Engineer   **Feb. 2016-May. 2017**

Transamerica, Cedar Rapids, IA

- Engineered a robust build automation, continuous integration, and test environment, reducing integration issues and enhancing code quality.
- Expertly installed and deployed Red Hat Enterprise Linux 6.x/7.x, CentOS, managing packages and patches for Red Hat Linux Servers. Deployed mobile apps on various platforms (Android & iOS) using frameworks like Ionic and Titanium.
- Automated Docker container builds through Jenkins Pipeline, streamlining the deployment process, eliminating 80% of manual work, reducing errors, and accelerating production.
- Administered Jenkins for a seamless weekly build, test and deploy applications on Dev/Test/UAT/Prod git branching Model for weekly releases.
- Automated weekly releases using ANT/Maven scripting, facilitating Java code compilation, debugging, and placement of builds into Maven Repository.

Infrastructure Engineer   **Jun. 2015-Jan. 2016**

General Electric, Fairfield, CT

- Collaborated with diverse development teams as a Release Engineer, orchestrating multiple simultaneous software releases and implementing Software Release Management strategies for various applications in alignment with agile processes.
- Deployed and monitored scalable infrastructure on Amazon Web Services (AWS), executed configuration management using Chef cookbooks.
- Analyzed, designed, and developed automation tools for deployment, development, and operational tasks, actively contributing to build and deploy automation support for Continuous Integration/Continuous Deployment (CI/CD).
- Orchestrated the strategic direction of Infrastructure Architects from conception through QA and deployment, fostering close collaboration with Data Center, Development, Quality Assurance, and Management teams to ensure effective cross-communication and obtain approval for all production changes.

Software Engineer   **Jul. 2012-Sept. 2013**

DSR Solutions, India

- Combined technical competence with dependability to connect, configure, and troubleshoot WebLogic Application Servers 8.1/9.1/9.2, ensuring optimal performance and reliability.
- Professionally managed the Application Support team, identifying and correcting issues and bugs related to WebLogic, and meticulously documented resolutions.
- Configured Apache Web server and seamlessly integrated WebLogic server 8.1/9.1/9.2, by collaborating with developers and systems engineering to resolve configuration, deployment, and debugging challenges.

EDUCATION

OKLAHOMA CHRISTIAN UNIVERSITY, EDMOND, OK,   **2013-2015**

Master's degree in Computer Engineering

PRINCETON COLLEGE OF ENGINEERING, HYDERABAD, IN   **2008-2012**

Bachelor's degree in Electrical & Electronics Engineering