John Cook   john.b.cook05@gmail.com

Westminster, CO

Skill Summary

- Full Stack Software Engineer with expertise in build engineering, CICD, devops, cloud engineering, docker containerization, process improvement and technical team leadership
- Developed applications in C#, Java, PHP, JavaScript and Python
- Successful in efficiently implementing cloud container orchestration solutions
- Release engineering and CICD experience in C#, Java, Node.js and C++
- Expert in automation to include cloud automation, build automation and CICD
- Extensive expertise in developing and implementing best practice agile development methodologies to include SCRUM and XP.
- Successful in implementing repeatable, cost effective solutions that immediately increase the efficiency of the project team and help to ensure the release of high quality software

Key Expertise

DevOps Architecture Design	Container Orchestration	CICD	Technical Team Leadership	Agile Process Improvement
Agile Management Tool Implementation	Docker	AWS Architecture and Engineering	DevOps	Cloud Engineering

Technical and Management Skills

- 18 yrs Software Development Experience
- 5 yrs Management Experience
- **Programming/Scripting languages/Frameworks**: C#, .Net 3.0-4.5, SQL, HTML, Java, Javascript, Shell, Perl, Python, Powershell
- **Cloud Technologies**: AWS, EC2 Boto2-3, Kubernetes, Terraform
- **Operating Systems**: Linux (Ubuntu, Redhat, CentOS, Debian) Windows (up to Windows 10) Mac (OSX)
- **Containerization**: Docker, Kubernetes
- **Continuous Integration/Release Engineering**: Jenkins, Team City, Cruise Control, Ant, Maven, Subversion, GitHub, BitBucket, Subversion, Git, GitLabs, GitHub, Docker, Ansible, Packer
- **Project Management and Test Tools**: Jira, JUnit, NUnit, WatiN, SoapUI, Rally, Selenium Webdriver, Postman, Newman
- **Database Platforms**: Oracle 8i-11g, MS SQL Server 2000-2008, MS Access, MySQL, DB2, Teradata, PostGreSQL, Cassandra, DynamoDB

Project Experience

AWS Solutions Architect/CICD Architect Sr. Consultant, Cable Labs/Kyrio 08/2017

** Revisited Kyrio for refresher training and Microservices/CICD system updates

- Upgraded CICD systems to .Net Core 2.0 and Docker 17.06 and provided corresponding Ansible Playbooks
- Developed and implemented multi-stage Dockerfile for Aspnet and .Net Core microservices
- Upgraded Jenkins to 2.0
- Updated Microservice CICD Pipeline to include dynamic test execution
- Provided training and guidance on Kubernetes, AWS, Jenkins, Docker and .Net Core 2.0
- Provided training on the full spectrum CICD solution ensuring development and operations staff could spin up and maintain the environment as well as efficiently onboard new Microservices

AWS Solutions Architect/CICD Architect, Cable Labs/Kyrio 10/2016 – 03/2017

- Designed and Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes AWS infrastructure and microservice container orchestration
- Implemented CICD allowing for deploy to multiple client Kubernetes/AWS environments
- Leveraging Ansible and Packer implemented a streamlined Jenkins solution allowing for initial environment spin up and or recovery in minutes
- Developed Ansible playbooks to manage development and build servers
- Leveraging kops implemented a Kubernetes Container Orchestration solution within AWS allowing for easy management, creation and recovery of AWS assets
- Managed AWS assets and architecture to include VPC, Subnets, Routing Tables, Security Groups, ELB, EC2 and Route 53
- Developed and maintained Dockerfiles for Debian .Net Core microservices
- Developed microservice onboarding/self-service tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services
- Leveraging Jenkins and Groovy provided a fully recoverable microservices build solution
- Performed administration on AWS Assets, Jenkins, GitLabs and Kubernetes
- Implemented Jenkins and Slack integration
- Trained staff on effective use and admin of Jenkins, Docker, GitLabs and Kubernetes
- Provided guidance to development regarding effective microservice architectures

Sr. Build Engineer/DevOps Consultant, Charter Communications 03/2015 – 02/2016

- Implemented Continuous Integration (CI) for Java REST API micro services (Maven), Node JS applications (Grunt, Gulp), leveraging Nexus, Git Stash, Jenkins, AWS, Docker and Ansible
- Implemented a Docker delivery pipeline allowing for CICD of Java tomcat web service containers
- Managed Jira Agile Scrum/Kanban boards and developed queries for project management teams
- Implemented AWS asset management leveraging Python ec2-boto2 and ec2-boto3 to control AWS costs and to ensure uninterrupted development
- Managed a PAAS system leveraging Jenkins, Nexus, Ansible, Packer and AWS

- Implemented Netflix OSS components Zuul and Ribbon client in support of a CI environment
- Provisioned AWS Amazon Machine Images leveraging Ansible and Packer
- Developed Python class libraries for automation of build and DevOps tasks using Asgard, AWS, and Jenkins API
- Developed self-service/automation tools leveraging Python ec2-boto, fabric and Jenkins which increased efficiency of DevOps and development tasks
- Managed Jenkins for CICD in a multiple VPC AWS environment for Java and Node JS
- Developed Python scripts leveraging ec2.boto and fabric to deploy to and manage AWS assets
- Provided guidance regarding effective infrastructure automation, test automation and integration
- Automated the configuration of AWS assets such as Auto Scaling Groups, AMI's, and Instances
- Developed and implemented automated builds leveraging Maven, NPM, Grunt, and Gulp
- Performed administration on AWS Assets, Jenkins, Stash, Nexus, and HipChat
- Managed Jenkins in an HA environment ensuring maximum uptime in support of 400+ automated builds and numerous development and test teams
- Implemented Jenkins and HipChat integration
- Trained staff on Git and Stash usage

Staff Software Configuration Engineer, Digital Globe 06/2014 - 02/2015

SCM/Release Management
- Led the version control migration effort to migrate all repos from SVN to Git
- Automated the migration of 150+ repos from SVN to Github
- Developed Python build utilities which greatly increased the efficiency of the build automation
- Developed automated builds leveraging Jenkins, CMake, Make, Ant, and Maven
- Implemented CI across several development teams which was effective in providing continuous feedback and increasing code quality
- Developed a phased approach to CI implementation that facilitated the adoption of CI
- Managed a CI environment leveraging Jenkins, Ansible, Linux, Windows and AWS
- Trained staff on Git and GitHub API usage

Jira/Confluence/Jenkins Administration
- Installed, configured and performed full spectrum administration on Jenkins, Jira and Confluence
- Configured tools for max performance and max uptime in support of 100+ users
- Implemented automated backups for all tools
- Fully customized Jira projects to fit project needs (Workflows, Issue Types, Screens)

Independent Consultant/Automation Architect 05/2013 – 06/2014

As an independent software consultant specialized in developing and implementing automation architecture and frameworks, refactoring existing automation for maximum efficiency, implementing and maintaining continuous integration and custom C# development.

Custom C# .Net development
- Developed C# .Net Web Client, XML, MSMQ, string, and file utility libraries
- Developed C# .Net Web Client utility to parse CSV and download images

- Developed .Net Solutions leveraging Visual Studio 2013
  Automation architecture development and refactoring
- Developed a page based automation framework with C#, NUnit and Selenium Webdriver 2.0
- Developed a page base automation framework with Java, JUnit and Selenium Webdriver, 2.0
- Implemented functional test coverage and code analysis leveraging Sonar, Jacoco, Fitnesse and Bamboo
- Developed and implemented Jenkins CI builds for C# and Java applications

Summary of Previous Employment (1993 – 2012)

Automation Architect, Compri Consulting, Denver, CO
Automation Architect, Tek Systems, Louisville, CO
CICD Engineer, Staples, Broomfield, CO
Automation Architect Consultant, Prototest, Boulder, CO
Automation Architect/Jira Admin, Midcom Consulting, Vergennes, VT
QA Manager, Prototest, Denver, CO
QA Manager, Planet Group Inc, Denver, CO
Automation Architect, RHT, Loveland, CO
Automation Engineer, Sapphire Tech, Longmont, CO
Automation Engineer Lead and Process Consultant, Anteo Group, Fort Collins, CO
Automation Engineer Team Lead, Vega Consulting, Albany, NY
Lead Engineer, Linium Consulting, Albany, NY
Lead Automation Engineer Consultant, IA Systems, Albany, NY
Lead Automation Engineer, Experian, Albany NY
QA Automation Lead Consultant, Keene Consulting, Albany NY
Tech Lead, Solutions Point, Overland Park KS
Oracle Developer CSC/DOD, Kansas City, MO
E-5 Platoon Sergeant, USMC

Education

Bachelor of Science: Management Computer Information Systems Park University, Parkville, Mo.

Training and Certification

AWS Certified Solutions Architect - Associate (SAA) 2017
AWS Certified Developer - Associate (DVA) 2017
AWS Certified SysOps Administrator - Associate (SOA) 2017