

Midlothian,
Virginia

EXPERIENCE SUMMARY

Over 30 years experience in the information technology (IT) industry including:

- AWS Certified Cloud Practitioner
- Senior Software/System Engineer current hands-on software development and contributing to open source software
- Extensive experience as Enterprise Architect/System Engineer and Technical Management
- Defined and implemented range of system infrastructure architecture including SOA and Microservices.
- Successfully designed, implemented, and deployed mission critical systems for both civilian and military customers
- Critical member in various roles of Agile and SAFe development teams

PROFESSIONAL EXPERIENCE

Repairify, 5700 Tennyson Pkwy STE 600, Plano, TX 75024

07/2023 – 03/2024

AWS DevOps Engineer, Richmond, VA (Remote)

As an AWS DevOps Engineer responsible for AWS automation using terraform Infrastructure as Code (IaC), AWS SDK AWS IAM, AWS Secret Manager, AWS Certificate Manager, AWS Parameter Store, AWS ECS, AWS S3, AWS ELB, Docker builds, and AWS EC2 automation. System automation utilized terraform, bash, groovy, and Jenkins/AWS CodeBuild.

ICF, 1902 Reston Metro Plaza, Reston, VA 20190

08/2022 – 07/23

AWS DevOps Engineer, Richmond, VA (Remote)

As an AWS DevOps Engineer responsible for AWS automation using terraform Infrastructure as Code (IaC) AWS IAM, AWS Secret Manager, AWS S3, AWS ELB, Docker builds, and AWS EC2 automation. System automation utilized terraform, bash, groovy, Jenkins Templating Engine (JTE).

Signify Health, 4055 Valley View Ln, Ste 700, Dallas, TX

06/2022 – 8/2022

Senior Engineer IV, Richmond, VA (Remote)

As a senior engineer responsible for AWS automation using terraform Infrastructure as Code (IaC) for AWS EKS, AWS RDS, AWS IAM, AWS Secret Manager, and AWS EC2 automation. System automation utilized bash, python, go-lang, helm, and github.

Federal Reserve National IT, 701 E Byrd St, Richmond, VA 23219

10/2018 – 05/2022

Senior Solution Engineer, Richmond, VA

Current member of AWS engineering team that automates management of AWS Service Enablement, AWS IAM Roles and Policies, and AWS ECR and ECS. System automation includes Hashicorp Terraform, AWS CloudFormation Templates, AWS CodeCommit and CodeBuild, AWS SDK tools, bash, python, and Go Lang. Former member of the OpenShift engineering team that installs and supports Red Hat Enterprise Linux (RHEL) servers, OpenShift Kubernetes cluster, Docker images and containers, VMWare and AWS environments, and development teams. System automation utilizes Ansible, Ansible Tower, bash, python, Jenkins CI/CD pipeline, Nexus, and AWS SDK tools. Team is part of FRIT SAFe Agile technical teams. Work directly with bank development teams and support and operational teams.

Maconit Consulting

09/2017 – 09/2018

6950 Forest Hill Ave, Richmond, VA 23225

Technical Lead, Dominion Voltage Incorporated (DVI), Richmond, VA

DVI EDGE solution is a product suite sold to utility companies in the United States, Canada, and U.S. Military facilities. EDGE capabilities include real-time control of voltage levels across a utility's electrical infrastructure, which are based on customer models created in EDGE. The product is a distributed architecture of microservices. The solution stack includes Linux/Docker/Rancher, Cassandra and Kafka, Angular, and Java Spring Boot using Netflix open-source frameworks. The

development environment is IntelliJ IDEA running on Ubuntu local VirtualBox. Created Ubuntu image and automated installation and updates of local development tools. Team tools are Bitbucket and GitHub, Bamboo and Jenkins, Docker Hub and Nexus, Jira and Confluence on Red Hat Enterprise Linux (RHEL) 7.x servers. Defined AWS architecture and approach for migrating on-premises servers to AWS, which was approved by Dominion Security and Enterprise Architecture. In addition to hands on development and DevOps work and application security, lead the team with: creating UML design artifact, code reviews and pull requests, data designs for Cassandra, Kafka and REST routes and DTOs, maintained CI/CD pipeline, design Docker base images, and trade-studies and solution selection. Worked closely with architects, electrical engineers, and stakeholders to manage story backlog, prioritization, and authoring development and DevOps stories with acceptance criteria based on design and requirements.

Insight Global Consulting

04/2017 – 09/2017

Senior API Software Engineer, Snagajob, 4851 Lake Brook Drive, Glen Allen, VA, 23060

Designed and implemented a REST micro-services on top of MongoDB and RabbitMQ. Took on additional responsibilities to automate the Continuous-Integration/Continuous-Development (CI/CD) pipeline for entire solution-stack that includes NGNIX, Angular Universal/Node, and REST micro-services. The CI/CD pipeline compiled and package source code from GitHub, created Docker containers, generated AWS environment, and deployed Docker containers to AWS-ECR and AWS-ECS. Automation utilized bash scripts, Terraform scripts, CircleCI, and AWS API. Acted as technical mentor to assigned team. Acted as a technical lead for coordination of development and DevOps teams. Created Inner-Source community of practice of work completed which lead to micro-services and Docker being adopted by other teams. Finally wrote Agile stories with detailed acceptance criteria, and authored architectural documentation and GitHub [REDACTED] so work could be easily understood and utilized in five company development locations throughout the United States.

United States Courts

10/2016 – 04/2017

Senior Programmer Analyst, 701 East Broad Street, Richmond, VA 23219-1888

Lead software development for replacing legacy Bankruptcy Intranet Forms System which included documenting existing system baseline, new system requirements, design, and performed all the programming using Java 8, Vaadin 8, PDFBox, custom Java CSV parser, Spring-Boot, Jetty/Tomcat, and Docker. Also part of software development support team for national bankruptcy financial system used by 94 U.S. Federal Courts. Technologies included Java 8, MySQL, Netbeans 8.2, Wildfly, REST/SOAP, Red Hat Enterprise Linux (RHEL) 7, Jenkins, Git Labs, Jira, Docker and OpenShift. Role is 100% hands on technical.

Capital One, Richmond, VA

10/2014 – 7/2016

Enterprise Architect/Senior Manager

Solution Architect led 9 Agile/SAFe development teams, selected technologies, defined technical roadmaps, wrote architectural/technical stories, implemented critical code and infrastructure, oversaw technical acceptance criteria teams, performed design/code reviews, test coverage and results, and CI/CD promotion tests and checklists. Approximately 50% of workday was hands on with technologies or programming.

- Modernized SOAP legacy with updated SOA REST web services, JSON data structures, OAuth 2.0, and Spring
- Automated Amazon Web Services (AWS) using Cloud Formation Templates (CFT), Chef, Ansible, and Terraform, AWS API (Java and Bash)
 - Implemented Red Hat Enterprise Linux (RHEL) 6 and 7, Bash Shell, Docker, SELinux
 - Developed Java 7 then 8 using Spring MVC, Spring Boot, Spring Stream, and Spark Stream
 - Migrated to new databases: Postgres, MongoDB, and Cassandra
- Stood up Jenkin/Git/Docker-Hub CI/CD
- Delivered 6 major releases into production of open-source custom software to replace outsourced solutions.
- Staffed and coached 35 new engineers in 14 months and stood up 7 development teams in two cities.

Northrop-Grumman, North Chesterfield, VA

01/2007 – 10/2014

System Architect/ Systems Engineer – DOD Secret Clearance

Headed up and developed an open source/open architecture layer of U.S. Army Global Combat Support System-Army large-scale global logistics system used in garrison and the battlefield.

- Technical Lead and Senior Developer (70% hands on with technologies or programming) developed and delivered messaging utilizing the following Red Hat SOA/Java technologies:

- JBoss 5 and Java 7 using application servers: SOA-P Enterprise Service Bus and SOA-P Java Messaging Services (JMS) and EDS-P Extract Transform and Load (ETL) and EDS-P Virtual Database (Teiid)
- SOAP published with WSDL 1.1 and XSD definition importing: IEEE XML/XSD military data standards, and REST using: JSON data structures and OAuth 1.0
- Engineered parallel operations of legacy and new system where 64,000 File Transfer Protocol (FTP) distributed accounts were collapsed to enterprise data center on GlobalSCAPE FTP Server in FIPS Level II Mode. Wrote Custom C#/C GlobalSCAPE API application for creating and managing accounts, and Custom C#/C messaging application for routing and transforming data.
- Implemented (100% hands on with technologies or programming) custom global distributed print job solution using: Java Apache Camel and ActiveMQ to queue and route print jobs; Apache Tomcat 6 – 8, and SOAP using Published WSDL 1.0 and Custom XSD Definition, and DOD PKI and X.509 Version 3 Certificates.

EDS

01/2006 – 01/2007

Senior Developer – DOD Secret Clearance

Software engineer and mentor at Defense Logistic Agency (DLA), Richmond, Virginia and supporting DLA DADMS.

- Created software and database UML design. Implementation technologies used Java, Java-Script and HTML, Oracle, SQL-Plus, SQL-Loader, Oracle Application Server, Korn-Shell, HP-UNIX, and Sun UNIX
- Successfully implemented and executed mock disaster recovery of system in DISA data center

Circuit City, Richmond VA

02/2002 – 10/2006

Systems Architect

Directed companywide technical strategic direction, SOA and Enterprise Service Bus (ESB), and implemented and delivered that solution to 600 retail stores and 200 warehouses the following:

- Point-of-sale workstation Windows embedded XP custom shell/shell written in native C and C# and Windows Services for Java JVM/Application lifecycle management and monitoring, and for point-of-sale workstation operating system lifecycle management and monitoring.
- In-store Windows Server, Windows Services for Point-of-sale workstation administration, software deployments, and monitoring. Implemented distributed queue system for store system management and monitoring
- Developed e-commerce integration defined WSDL, constructed Web services SOAP 1.2-document and JMS queues which bridge WebLogic and WebSphere servers. All work was completed in Java 6.

VeriSign (formerly Network Solutions Incorporated), Herndon, VA

07/1998 – 02/2002

Senior Software Engineer and Technical Lead

Designed and implemented DNS domain-name registration system and associated products and services, supporting more than 100,000 requests per day, for partners in the United States, Canada, Central and South America, Europe and Asia, and supports non-Latin characters in the domain and host registration process.

- Programmed in computer languages: Java 1.1 – 1.4; Unix – Bash, Korn Shell, TCSH, C-Shell; and Perl
- Implemented Application Servers: CORBA-VisiBroker 4, J2EE WebLogic, and webMethods
- Earl adopter of Service Oriented Architecture (SOA) using SOAP, RPC, XML and DTD
- Round trip code with Eclipse and Rational Rose Java and C++ Round Trip Engineering of source code and UML
- Deployed to Platforms: Solaris Unix, Windows NT, Oracle 8i Database, and Sun Hardware – 10,000 through 250

ADDITIONAL PROFESSIONAL EXPERIENCE

Alta Software, Senior Software Engineer and Technical Lead

Perot Systems Corporation, Senior Software Engineer and Technical Lead

Overnite Transport Company, Union Pacific Corp. Subsidiary, Programmer/Analyst

EDUCATION

Post-Baccalaureate Certificate in Information Systems

Virginia Commonwealth University
Richmond, Virginia.

B.S., Biology & Minor in Chemistry

Virginia Commonwealth University
Richmond, Virginia

CERTIFICATIONS & AWARDS

- AWS Certified Cloud Practitioner
- Red Hat Summit 2014 – Innovation Award Finalist Speaker
- Sun Certified Java Programmer
- Member of MIT Technical Committee *World Wide Web Consortium* (W3C) Artifact-Reviewer of *Web Cryptography Working* that is now a web browser security standard
- Commercial Multi-Engine Instrument Pilot; Certified Flight Instructor; Certified Instrument Flight Instructor; and Multi-engine Instructor

TRAINING

- Amazon Web Services (AWS): Basic System Administration; AWS Advanced System Administration; and AWS System Architecture
- Agile Scrum Master and Agile Project Management
- Red Hat Enterprise Linux 6 Accelerated Administrator and Security Enhanced Linux
- Red Hat JBoss SOA-P 5; Red Hat JBoss EDS-P 5; Red Hat JBoss Teiid; and Red Hat JBoss 5 Administrator
- F5 Big-IP 11: Administrator, Local Traffic Manager (LTM); and Application Security Manager (ASM)
- Shunra Network Appliance Administration and Simulations