MICHAEL BUCKLEY

Systems Engineer - DevSecOps

📍 Blackstone MA

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Principal Systems Engineer - DevSecOps

Senior Systems Engineer with many years of experience in DevOps, automation, and cloud technologies. Successfully migrated integration environment from on-prem to AWS-based solution and continue to lead efforts to move the organization to state-of-the-art CI/CD implementation and containerization. Certified in Security+ and SAFe, with experience in AWS, Azure, and Antsle.

Skills

- **Languages:**   C#, PowerShell, Bash
- **Automation Tools:**   MicroFocus SilkTest, Ranorex, Test Complete, Jenkins,
- **Deployment Tools:**   Terraform, Rundeck, Docker, Kubernetes
- **Platforms:**   Windows, Linux, iOS, MACOS
- **Virtualization:**   VMware, Citrix, Hyper-V
- **Cloud**:   AWS, Azure, Antsle

- **Other:**   SAFe Trained, Certified Scrum Master Agile/Scrum

    Security+ Certification

    Security Clearance - Top Secret

Work History

Nov 2018 - Present

Senior Systems Engineer - SME
BIGBEAR.AI

DevSecOps Systems Engineer supporting the AF-DCGS GEOINT Value Stream

- Product management for complex mission based application that integrates several diverse applications to achieve mission goals.
- Successfully migrated Integration environment from on-prem to AWS based solution.
- Lead effort to move organization to state of the art CI/CD implementation and containerization.
- Lead effort to move test environment from on-prem to AWS
- Develop automation and testing on demand for candidate releases
- DevSecOps SME

Sep 2016 - Nov 2018

Advanced Senior Software Engineer 2
General Dynamics Mission Systems

Agile team member responsible for the provisioning and orchestration of the Remote Vehicle Provisioning System (RVPS) in support of the Mission Network

- Design and develop deployment strategies to provision master provisioning device in order to orchestrate the deployment of the system environment deployed in the field.
- Develop and deliver appropriate configuration and deployment scripts and objects primarily developed in Powershell V5.1, using desired state configuration in a push model.
- Automate process to continuously build and deploy the device on demand and on schedule.

May 2014 - Sep 2016

Senior Member of Technical Staff Systems Integration Virtualization and Provisioning Systems
General Dynamics Mission Systems

- Technical Leader for design and implementation of Continuous Development / Improvement and Testing Services for next generation of provisioning services for War-fighter Information Network - Technical (WIN-T) program, using state of the art .NET tools and processes.
- Technology Team Lead and SME on new Agile based team to develop Microsoft Deployment Toolkit services for next generation patch deployment and new image deployment for both virtual and bare-metal systems. (WIN-T)
- Delivered extensive PowerShell based scripting system to deploy application delivery services using Citrix XENServer and Citrix Receiver on a VMware Virtual infrastructure.

- Updated automatic image finalization tasks from vbscript to PowerShell.
- Implemented PowerShell scripting and custom cmdlets to support new deployment strategies.
- Introduced GIT to development team
- Lead Engineer in multi-group integration efforts. (VMware, Windows, Linux, Deployment, Security)
- Developed PowerShell based GUI wrapper to support legacy Perl scripting as interim solution.
- Developed and implemented Test Driven Development for Provisioning Services based in Powershell
- Developed package management /deployment services using Nu-Get and Chocolatey package managers with Desired State Configuration implementation.

Aug 2012 - Aug 2014

Chief Technology and Information Officer
Hopedale Public Schools

- Responsible for all technology services and programs for school district.
- Managed all quality initiatives to improve user experience, improve technology performance
- Stabilized obsolete operations, and developed best practices for technology support using state of the art tools and processes.
- Virtualized all back office services using VMware. Migrated from legacy Windows 2000 environment.
- Migrated district to Google Apps for Education (GAFE).
- Developed and deployed new VOIP hosted service, bringing communications to every teaching area in the district.
- Successfully piloted a 1:1 implementation using Chromebooks for Advanced Placement (AP) HS Classes, and 1:1 program to Grade 6 classes for SY13-14. (130 users).
- Implemented new wireless infrastructure in all buildings
- Established and produced Technology Roadmap for 2014-2018
- Managed staff of five.
- Mentored and supported new staff and student interns.
- Managed Technology Budget. ($1M+ annually)

Dec 2011 - Nov 2012

Software Automation Engineer
Ambient Corporation

Ambient provides "Smart Grid" solutions for the Power Distribution Industry.

- Created new Automation Infrastructure for testing of Java based Management Application
- Migrated 2500 test cases from older less-reliable testing tool to new framework.
- Implemented Test framework using Ranorex - C# based solution.
- Developed data driven tests to support new infrastructure.
- Worked to integrate automated testing through scripts and utilities to force auto install and auto testing on demand.

Aug 2009 - Dec 2011

Sr QA Automation Engineer
Unidesk

Unidesk provides desktop layering technology that virtualizes and manages the three layers that comprise VDI - OS Layer, User Layer and Application Layer.

- Member of an Agile/Scrum team responsible for development of Customer-facing Silverlight application to monitor and manage Virtual Desktop Management solution.
- Developed test harness test suites and utilities to exercise and regression test GUI features of product, covering over 90% of the feature set.
- Provided hands-on training to support team members in implementation roll out of solution.
- Responsible for integration of third party products into Unidesk solution. such as VMWare View. Integration saved time in deployment of testing operations, and minimized duplication.
- Assisted in the re-factoring and expansion of internal Test frameworks developed in Python to support new features, and to minimize testing gaps.
- Investigated and developed PowerCLI scripts to support testing and management of VMWare infrastructure.

Jul 2006 - Aug 2009

Sr Quality Assurance Engineer - Automation
AIR Worldwide

AIR Worldwide (Applied Insurance Research) Provides tools and processes to assist large insurance and financial organizations in underwriting operations.

- Initiated, Developed and executed a successful Proof of Concept to virtualize over 140 desktop and servers for testing, that became part of the standard approach for testing.
- Re-factored existing Silktest infrastructure to support new features and new technologies.
- Wrote all functions, methods, declarations, scripts and plans to test product.
- Define and enforce testing and programming standards
- Provide expertise in advanced features of Silktest
- Built a Silktest-Driven Installation system using Null Soft Installation System (NSIS) and Silktest - Completely automated daily builds including database updates, smoke and functional testing.
- Worked with Junior members to adapt new functionality testing into Data driven testing methodology.
- Developed framework to support new custom WinForms and WPF application in .NET 3.5 using custom Silktest solution and plugins to support object recognition of custom controls.
- Worked closely with developers to identify areas and methods to improve testing efficiency, expand coverage and increase product reliability.

1997 - 2006

Independent Consultant: IT and SQA Services

CyberSolutions, Inc

The education reform act of 1993 called for deployment of technological resources in Massachusetts public schools K-12.   As part of this initiative I provided services to local school districts in Mass, Rhode Island and Connecticut

- Developed Technical implementation strategies for K-12 School Districts and small businesses.
- Conducted extensive auditing and requirements gathering to design and develop strategy for IT needs.
- Created schedule for implementation efforts, wrote specifications for hardware and software purchases, developed integration strategy for hardware, operating system software, and application software.
- Provided services to consolidate and improve data for Student Information Systems.
- Developed and implemented data strategies for Federal "No Child Left Behind" Program.
- Monitored and oversaw appropriate implementation of services.
- Provided technical support to staff. Train and mentored Helpdesk personnel.
- Using Silktest developed and implemented automated testing for development organizations.
- Conducted QA and automation training seminars.
- Assisted in development of Automation strategies.
- Using Silktest, developed frameworks, methods, functions and tests for Windows based MFC, C++ applications.
- Using Silktest created scripting scenarios to exercise web services in an apache, IIS environment. (before SilkPerformer). to create a load environment to validate client benchmarks for performance.
- K-12 Network Consultant Helpdesk and implementation services.
- Developed NT4 Domain model for multiple sites supporting K-12 Districts. Migrated to Active Directory with introduction of Windows 2000.
- Managed overall desktop and Server implementation for 4 separate school districts in Massachusetts
- Managed over 5000 desktops and over 250 servers across 16 locations

Apr 2013 - August 2016

Bachelors of Arts - Public Administration / Public Policy
Southern New Hampshire University

BS Public Administration: October, 2016

Sep 1991 - May 1995

School of Industrial Management

Worcester Polytechnic Institute

Renowned program established by WPI to service individuals and companies in growing management skills. Program covered all aspects of Management, Policy, Finance, Organization, Technology, Marketing, and Communications.

Graduation May, 1995

2020 - Present	**FAA Part 107 Certified UAS Remote Pilot** Federal Aviation Administration This certificate demonstrates that you understand the regulations, operating requirements, and procedures for safely flying drones.
2019 - Present	**Security+** CompTIA
2014 - Present	**Top Secret Clearance** US DOD
Jun 2014 - Present	**VMware Certified Associate - Data Center Virtualization** VMware
Jun 2014 - Present	**VMware Certified Associate - Workforce Mobility** VMware

Hobbies and Interests

- Licensed Part 107 UAS (Drone) operator
- Fire Support Services (Boston Sparks)

Community Service

- Town Moderator: Town of Millville, MA (1980 - 2004)
- Member: Blackstone/Millville Regional District School Committee (1985 to 2014) - 9 years as chairman.
- Director of Communications - Town of Millville (9-1-1 Emergency Dispatch)
- Member: Massachusetts Association of School Committees.
- Member: Massachusetts Moderators Association.
- Past-Member: Massachusetts Municipal Association.
- Past Member - Millville Fire Department (EMT/Firefighter)

Chromebook 1:1 PROGRAM

Implementation of a 1:1 program using Chromebooks in Grade 6 - Hopedale Public Schools
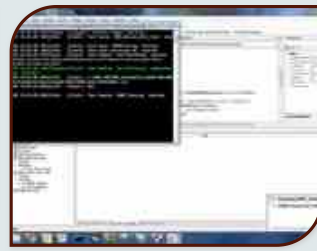

Grade 6 Presentation to Sch…

Software test Automation Examples

Using Visual Studio and Ranorex for Functional Testing

Integrating Testing with Visu…

Ranorex Debug View