# Dwight Anthony Spencer

Founder: CompuTEK Industries, Da Planet Security, CO2600, North DFW 2600 Co-Founder: TheLabs.MS, Zero1 Nation Hackerspace

Specialties: DevOps Service Delivery, Team Leadership, Cloud based infrastructure, High Availability Architecture design, and Application Security.

A well rounded, results oriented Solutions Architect with 15+ years of experience supporting clients with a technical experience in ITIL, agile project management, and system architecture in enterprise environments. This is achieved by combining a background of strong technical acumen with business and project management experience. My efforts with DevOps and automation have delivered numerous Business Intelligence Dashboards, Scalable Mobile Applications, and Service Level Agreements that provide performance transparency and improve decision making.

Current Certificates in the pipeline: Six Sigma Green Belt Certification and CISSP.

## Corporate Experience

Dec 2015 (Present) *Software Engineer in Test for* [*Fidelity Investments*](https://www.fidelity.com/)(Westlake, TX. USA)

Architectured and Developed Ci/CD solution centered around docker and git based automated deployment which sped up testing and deployments by 500%.

Coordinated development of large system test network utilizing customer configurations, incorporating all features insuring system integration and interoperability testing were completed.

Oversaw a team of 10 resources spread across Research Triangle Park (RTP), Boston, Westlake, and Bangalore, India with responsibility for verification of service delivery features. Role included project leadership and performance management overview and feedback.

Aug 2015 (3 month contract) *Solutions Architect for* [*Mary Kay*](http://marykay.com) (Dallas, TX. USA).

Devised key performance indicators and operation policy for Infrastructure monitoring team.

Lead the discovery and architecture planning for ElasticSearch, Redis, RabbitMQ, and MongoDB clusters.

Maintained windows server(2003,2008,2012), mssql, and IIS hosting services.

Integrated ElasticSearch and Linux systems into Active Directory.

Developed powershell modules for automated tasks related to ElasticSearch.

July 2014 - Dec 2015 *Owner and IT Security/DevOps Architect for* [*Da Planet Security*](http://dapla.net) (Dallas, TX. USA).

Tasks included; Continuous development of a new security monitoring and data mining platform for FBI/Infragard which utilizes mongodb, gridfs, and custom python based agents to monitor social media outlets.

Reverse engineering captured malware from deployed docker based honey net for development of malware definitions, Analysis and reporting of malicious traffic captured on the honeynet.

Deployed OpenStack based architecture in multiple data centers for managed honeynet services.

Designed and developed AWS based on-demand bittorrent seedbox network for traffic analyst which utilized MQTT for control and monitoring.

Designed and developed a IoT sensor grid and security system based off ESP8266 and MQTT.

Implemented continuous integration system utilizing Jenkins, git and ansible.

Implemented configuration management system via etcd, confd, and ldap.

Implemented log management with logstash and elastic search.

Deployed alerting and notification system utilizing fluentd and twillo.

Developed real time dashboard software which utilizes MQTT, Node.JS, mongodb, and web hooks for inventory management, alerting and monitoring infrastructure.

Consultant to clientele in the areas of security, risk management and all compliance activities (PCI, HIPAA, FISMA, SB.) Lead expert witness for IT and Information Security.

Released previously designed custom information security tools to public domain for training and demonstration at North DFW 2600 user group. Tools included a parallel processing network auditor and SCADA hacking frameworks.

Feb 2015 (3 month contract) *Senior DevOps/Production Operations for* [*TechnologySpa*](http://technologyspa.com) (Dallas, TX. USA).

Advised board members on Industry best practices. Lead the discovery, architecture planning, and development phases for cross platform and cross hosting environment orchestration system.

Acquired business relations with key third-party solution vendors. Designed and developed a full featured Platform-as-a-Service solution for DevOps based clients centered around docker, ansible, and continuous integration via Jenkins.

Built and deployed an inventory management system for ansible that used Ruby, Sinatra and Mongodb to generate tagged based hosts files for ansible job deployments.

Designed and implemented modern APM and SIEM solution to replace post lifecycle Hostmonitor monitoring infrastructure with Statsd/Graphite, Logentries, Pingdom, NewRelic, and Pagerduty.

Key figure in development and deployment of scalable ITIL based Central management solutions for clients. Lead generation and sales engineering for a managed DevOps service provider.

Maintained vSphere architecture for managed windows server(2003,2008,2012), mssql, and IIS hosting services.

Integrated ansible and Linux systems into Active Directory.

Developed powershell scripts for automated tasks.

Jan 2014 (5 months contract) *Interim Chief Technology Officer for* [*TheLab Makerspace*](http://thelab.ms) (Dallas, TX. USA).

Maintain and provide usable workshop area for members. Ensure safe day-to-day operations of business and establish/document best practices. Enable limited-mobility access to workshop. Inspect and report on status of safety devices.

Maintain networks and server co-location environment. Facilitate Telecom systems for membership and co-working. Work alongside Networking Committee to provide tools and solutions for technology needs of business and membership. Update integrated security and access systems as-needed.

Communicate and work with third-party entities to complete construction projects and repairs to facility. Allocate and assign floor-space for large projects and static workshop elements

Oct 2013 - Aug 2014 *Sr. Linux Engineer, II for* [*Firehost, Inc.*](https://firehost.com/) (Dallas, TX. USA).

Provided service delivery for customers in a secure PCI compliant cloud hosted environment with responsibilities in managing Cisco routers, implementing infrastructure design with customers. Designing and implementing SIEM solutions on customer footprints. Analysing customer traffic to provide capacity planning and intrusion detection. Analysing customer server configuration for solution development. Managed edge and web application firewalls based on customer needs.

Performing restorations and backups of full system images over dell compellent storage arrays. Provisioned both Windows Server 2012 and Linux virtual machines within clustered vmware environments. Managed environments though both salt and puppet.

Worked along with the security team to develop system hardening documentation and procedures for virtual machine level security while building synergy between SOC and TAC teams.

Provided DBA solutions for customers though the DBA on demand offering.

Demonstrated clear understanding of infosec practices and performed security audits for the front-end security team

Feb 2013 - Aug 2013 *Linux Engineer, I for* [*HostGator*](http://www.hostgator.com) (Austin, TX, USA)

Provided Service Delivery for over 9 Million domains with responsibilities in the installing, maintaining, and troubleshooting popular e-commerce and Content Management Systems, such as WordPress, Joomla, Drupal, Magento, Prestashop, etc.

Dealt with importing, exporting, and making manual manipulations to MySQL databases.

Performed scanning, verification, and risk analysis for Linux-based MTA Proxy mail servers designed for Anti-Mail Abuse Management (Spam, Virus, Content, and Phishing).

Performed scanning, verification, and restoration of compromised web applications.

Designed and executed complex tests for system acceptance and verification of a distributed computer product involving a diverse set of Open Source and Proprietary components.

Wrote documentation, procedures, test plans, and test cases.

Executed test plans and test cases. Filed Bug Reports (software defects) following industry-standard practices.

Mar 2011 (2 months contract) *Computer Tech Support Analyst I with* [*Lockheed Martin*](http://lockheedmartin.com) (Colorado Springs, Co, USA)

Performed on-site and on-call customer support for IT services. During the contract was responsible for the Migration from standalone Windows XP systems to a network storage based platform on Windows 7 environments. This included the provision and installation of Dell laptops and desktops for clients, decommission of old assets, transportation of assets between sites and data centers. Also developed remote migration software and procedures that worked faster than the licenced Microsoft tools which finished the contract four months ahead of schedule by creating automation scripts using powershell and custom registry files which migrated customer data across the network.

May 2003 - Jan 2013 *Visionary Founder for* [*CompuTEK Industries*](http://computekindustries.com)

Responsible for providing a portfolio of Web development, IT, software, and technology services that meet the needs of clients. Also in charge of ensuring that the delivery of advanced technologies and solutions is done with a professional, honest, and personalised service approach.

Implemented an automated continuous deployment environment utilizing vmware ESX via api calls, git hooks and puppet which would deploy client application code to virtual machines then run unit tests and acceptability tests in the staging environment before deploying images to production servers in AWS.

Implemented ITIL lite policies for monitoring, asset management, incident reporting, service desk, and configuration management.

Lead developer for custom PHP, Ruby on Rails, and mobile (android, html5) applications. Created acceptability tests using selenium, cucumber, and xUnit frameworks.

Standardized application development platform to utilize a continuous delivery and high availability architecture centered around memcached, nginx, Enterprise Linux, mysql, and mongodb.

Contracted to develop the ruby on rails e-commerce platform Silkfair.com, key responsibilities were writing rspec unit tests, integrating 3rd party soap based live chat system, front end development, integration of solr search engine, deployment of varnish caching and load balancers, and patching several CSRF and SQL injection based security flaws.

Deployed domain controllers to Linux based system for open source based management of windows infrastructure and servers.

Managed shared hosting services on RHEL based LAMP stack servers.

Provided on-demand and remote IT help desk services for Windows, OS X, and Linux systems.

## Selected Open Source Contributions

*Information Security News*

Author of [North DFW 2600 Group Blog](http://dfw2600.tumbler.com) where we discuss technology and InfoSec news from around the world and focus on Dallas, TX related issues.

*Linux*

My daily operating system: I [blog](http://denzuko.flavors.me/) about it sometimes. Other times I'm maintaining packages for BlackArch and Kali Linux.

*Commission Junction*

A rails gem for accessing the Commission Junction SOAP API: I contribute on [github](http://github.com/denzuko/commission_junction/)

*OSSEC*

I Collaborate with the [Honeypot project](http://projecthoneypot.org/), [OWASP](http://owasp.org/), [US-CERT](http://us-cert.gov/), and other open source infosec projects to provide anti-malware definitions and spam detection rulesets.

## Skills and Experience

|  |  |  |
| --- | --- | --- |
| *Category* | *Skill* | *Skill Level* |
| Consulting | IT Services, Dev Ops | Expert |
| Systems | Analyst, Architect, Security | Expert |
| Languages(Read, Spoken, Written) | English | Expert |
| Languages(Read, Spoken, Written) | German, Spanish, Japanese | Beginner |
| Automation | Puppet, Ansible, Salt | Above Intermediate |
| Virtualization | KVM/Libvirt, Docker/LXC, VmWare, Virtual box | Expert |
| Languages(Scripted) | Ruby, Bash, Perl, Awk, BASIC, Power Script | Expert |
| Languages(Web) | HTML(3, 4, 5), CSS(1,2,3), JavaScript, jQuery, PHP | Above Intermediate |
| Languages(Compiled) | C++, ASM86, ANSI-C, Lua, Java | Expert |
| Languages(Other) | UML, XML, XSL, SQL | Intermediate |
| Programming tools | Vim, CMake, GNU toolchain, Git, Mercurial, SVN | Expert |
| Security Technologies | Metasploit Security Auditor, Nexpose, OSSEC, SSH, SSL, Digital Certificates, Anti-Virus Tools (Norton, Symantec, Ghost, etc.) | Intermediate |
| Monitoring | Splunk, Spiceworks, SNMP, Nagios, Sciencelogic, statsd/collectd/grafana, Elastic Search | Expert |
| Networking | Cisco ASA, Baracuda (Firewalls, and Load Balancers), F5 Load Balancers, LAN, WAN | Intermediate |
| Server Software | Apache, Ningx, MySQL, Sendmail/Exim/Postfix, Bind9 | Expert |
| Operating Systems | Linux (Redhat, Debian and source based) | Expert |
| Operating Systems | Windows NT (All), Windows Server, Mac OS X (10.3, 10.4, 10.9) | Above Intermediate |
| Operating Systems | Unix (FreeBSD, OpenBSD, Plan9) | Intermediate |

## Certifications

* + AWS Certified Solutions Architect (Mar 2015)
  + CACert Assure (Since 2013)
  + cPanel Certification (2013 - 2016)
  + VMware Certified Professional (Mar 2011)
  + RedHat Certified Engineer (Feb 2007)
  + Linux Professional Institute LPIC-3 (Sep 2008)
  + CompTIA Network+ (Sep 2008)
  + CompTIA A+ (Jun 2002)

## Organizations

ISOC Member

IEEE Member

InfraGard Member

Dallas Makerspace

## Honors

*Bloggers Choice Awards* 2008 and 2009 Nominee for Best Blog of All Time (Teachings of Master Denzuko)

## Education

2010-2013 *Bachelors of Science in Business and Web Development at Univ. of Phoenix*

2003-2005 *Bachelors of Science in Computer Science at Colorado Technical University*

## Activities and Interests

*Hobbies* I enjoy being a part of the maker movement and developing creative solutions for everyday problems. Current areas of interest involve DIY drones, SDR, and geo caching.

*Sports* Free Running, Cycling, Kendo.

*Activities* As the co-founder of the [zero1nation hackerspace](http://zero1nation.net) and the [North DFW 2600](http://dfw2600.tumblr.com) User Group I help promote a community of ethical hardware hacking and open source development for Teens, Young adults, and Youths at heart.

*Projects* Currently I am authoring a book and related Def Con presentation on Internet of Things Security.

[dwightaspencer@gmail.com](mailto:dwightaspencer@gmail.com) - +01 512 920 8169 - 3800 Pebble Creek Ct., Plano, TX, 75023, USA