

# Cody Wilson

## Systems Engineer

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Cody Wilson

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## Technologies

**Virtualization:** VMWare vSphere, Hyper-V. **Scripting:** Python, PowerShell, bash, JavaScript (MongoDB), Batch(DOS). **Automation:** Ansible. **Cloud/IAAS:** AWS, Azure. **Databases:** MongoDB, MySQL/MariaDB, Microsoft SQL. **OS:** Linux (Ubuntu, RHEL, Debian), Windows (Server 03-2012 R2), Apple macOS.

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## Experience

### IBM (Watson Health) / Senior Production Support Engineer

FEBRUARY 2017 - PRESENT, DURHAM, NC

I help lead a recently acquired division of IBM's Watson Health Life Sciences pillar to build a new, highly available infrastructure to host their suite of platforms that manage clinical trials. Combining the proven virtualization technologies of VMWare vSphere with Ansible for configuration-driven infrastructure, we're building a fully GxP HIPAA validated platform with full support for Continuous Integration / Continuous Development lifecycles. As a technical team lead, I help guide the short to medium term course of the IT team as we architect and engineer the future platform while planning the sunset of the existing IT installations.

### Transportation Insight, LLC / Systems Engineer

JANUARY 2014 - FEBRUARY 2017, HICKORY, NC

I designed, implemented and maintained the IT infrastructure for a transportation and logistics solution provider. Supported infrastructure spanned 3 datacenters, with 2 primary campuses and 6 remote offices, and 2 discrete public cloud installations (AWS). I operated in a light DevOps role supporting an internal LOB and external customer facing application. I also designed and supported the platform architecture for a highly available geo-diverse web application (Stack: AWS/Ubuntu/nginx/node.js/MongoDB/Ansible). I also deployed and maintained Docker Machine host environments for internal development. Designed and deployed a HPC cluster and HA VMWare vSphere environment on commodity hardware to run "Big Data" technologies such as MongoDB, Apache Spark, and neo4j. I frequently automated tasks using python and PowerShell. I also participated in an on-call rotation as second line escalation target.

### DCS Computer Services / Senior Technician

JANUARY 2013 - JANUARY 2014, DAVENPORT, IA

I provided IT consultation for around 100 businesses in eastern Iowa and northwestern Illinois to clients ranging from small office / home office to multi-campus enterprises. I collaborated with several software vendors to troubleshoot, deploy, and maintain bespoke line of business production applications. I designed solutions for businesses compliant to standards and best practices according to their needs and budget. I was also the architect of in-house documentation portal powered by Mediawiki.

### Stratus Broadcast Solutions / Broadcast Network Administrator

MAY 2012 - JANUARY 2013, DAVENPORT, IA

At this master control hub and centralized news production facility, I supported the IT infrastructure used to create and broadcast television content reliably and consistently to stations across North America. Some of the WAN technologies used include high class VPN point to point and MPLS circuits for hub/spoke network topologies. I maintained 2 high-definition and standard-definition television automation platforms consisting of about 50 video recording and playout servers, as well as a 12-node EMC Isilon SAN. I also designed and deployed a basic VMWare ESXi virtualization platform to migrate systems off of aging hardware and to support a new video transcoding platform. Participated in

24x7x365 on-call rotation.

### **Mississippi Valley Surgery Center / IT Application Administrator**

OCTOBER 2009 - APRIL 2012, DAVENPORT, IA

I supported over 200 users across six locations in eastern Iowa / western Illinois for an outpatient surgery center and physician-owner practices. Part of my duties included researching, deploying, and supporting IT infrastructure with a focus on healthcare practice management and operations. I assisted in the transition toward HIPAA and EHR Meaningful Use compliance by supporting and executing the compliance officer's plan. Some of the specific Electronic Health Records and Practice Management software I deployed and supported include: Wolters Kluwer ProvationMD and MultiCareGiver, SourceMedical AdvantX, Allscripts Practice Management. I supported and maintained a small VMWare vSphere 4 environment backed by an EMC VNXe SAN. I performed Layer 2 network management of Cisco switches with Cisco UCS VOIP, as well as performed basic management of Cisco ASA firewalls.

### **Staples / EasyTech Expert**

NOVEMBER 2008 - SEPTEMBER 2009, ST. AUGUSTINE, FL

When I briefly lived in northern Florida, I was the lead sales associate for electronics and business machines at this store. I was the direct supervisor for electronics sales associates and computer service technicians. I managed, coordinated, and performed the computer repair services offered by the store. I also assisted the sales manager in coordinating store department operations.

### **Systems Administrator, Software Developer / Systems Administrator, PHP "Hacker"**

NOVEMBER 2007 - NOVEMBER 2008, DAVENPORT, IA

I provided IT support to end users at a marketing firm and a weekly reader news magazine shop that used computers running Windows XP, Mac OS X, and Ubuntu Linux, as well as assorted business productivity software. Maintained Debian Linux LAMP web servers with both static and CMS backed sites that used Joomla and Drupal. I also performed basic development work on a custom web application (Stack: LAMP).

### **Internet Revealed, LLC / Junior Systems Administrator**

MARCH 2006 - OCTOBER 2007, MOLINE, IL

For this independently owned and operated Internet service provider, I supported infrastructure that provided internet access, email, web hosting, and server colocation services for around 1000 subscribers. I maintained servers running Gentoo and LinuxFromScratch Linux distributions as well as Windows Server 2000/2003. I also maintained BIND9 DNS servers on Gentoo and Solaris. I also participated in the on call rotation.

### **Neo Computers, Inc / Sales Associate, RMA Manager**

AUGUST 2004 - DECEMBER 2005, MOLINE, IL

I sold custom computers, components, and accessories at a local computer store. I processed RMA (Return to Manufacturer Authorizations) for defective items that were returned to our store, and provided phone troubleshooting for our warranty support.

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## Volunteer/ Hobbies

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### **MAGFest, INC**

Manager, AV Production and Engineering - Mega Man-athon (Charities Department)

Coming into my fourth season with MAGFest and the Mega Man-athon, I'm honored to work with an amazing team to produce 72 hours of non-stop content as a fundraiser for Child's Play, a charity that supports children in hospitals and domestic violence shelters around the world. I lead one and provide direct oversight over three other teams during the event with a focus on audio and video engineering and broadcast content production. Throughout the year I coordinate with audio/video vendors for equipment rental, design sets that convert between a broadcast studio and concert venue, build custom broadcast switching and graphics platforms, and work to find creative solutions that meet budget targets.

### **GameChops, LLC**

"Chief Technical Officer", Development Team Lead, Music Producer

As the honorary CTO of GameChops, the premiere music label for video game remixes, I help to drive technology initiatives with a focus on exposure and marketing for the label. As the leader of the "DevChops" team, we have built a handful of useful small projects in node.js, python, and PHP.

### **QC Co-Lab**

Founder, Former Board Member of a non-profit Makerspace

After talks with colleagues, we recognized a need for a makerspace; a place to foster collaborative invention and design, deep dives into emerging hobbyist technologies such as microprocessor programming, and to provide access to tooling out of reach for the average tinkerer/maker. I helped found the makerspace, served on the board for 3 of the 6 years I was a member, and designed and maintained the makerspace's web presence and server infrastructure.