

Matt Rideout

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SUMMARY

Detail-oriented computer scientist with 23 years of experience in software development, information security, and automating operations. Has TS/SCI clearance and an M.S. in Computer Science. Certifications include RHCE, AWS Certified Solutions Architect, CKAD, and CISSP.

EXPERIENCE

• Joint Warfare Analysis Center

Computer Scientist / Team Lead

Dahlgren, VA

August 2021 - Present

- **Clearance:** Cleared for TOP SECRET information and granted access to Sensitive Compartmented Information based on Single Scope Background Investigation.
- **Leadership:** Leading the team that heads up configuration management, operating systems, Cloud environment evaluations, and Kubernetes container orchestration for the command.
- **Software Development:** Developed an application that facilitates incremental data transfers of software repositories between air-gapped networks via multiple transport mechanisms while providing required security controls. The application allows more rapid, reliable, and granular updates to classified networks than previously possible.
- **Configuration Management:** Initiated investigation into Ansible as a unified CM (configuration management) tool to replace fragmented Linux, Windows, and network device tooling. Now leading my team through concurrent migrations to Ansible Automation Platform (AAP) and Red Hat Enterprise Linux (RHEL).
- **Analytical Applications:** Adapted and deployed analytic applications to execute JWAC's mission and support the warfighter.
- **Streamlined DevSecOps:** Promoting a culture of testing, code reviews, automation, and documentation. Created a positive feedback loop as the team spent less time on ops and more on development. Contributed to a 90%+ reduction in support backlog.
- **Networking:** Leading the Linux and Kubernetes sides of an organizational IPv6 rollout.

• GreenArrow Email

Lead System Administrator / Software Developer / InfoSec Team Lead

Schneider, IN

May 2010 - August 2021

- **Cloud:** Extended on-premises email software into a [Cloud/SaaS product](#) spanning AWS, Google Cloud, and colocation providers. Included developing updates to the software, building high-performance KVM hosts, establishing backup/restore procedures, configuring monitoring with a 24x7 on-call rotation, automating service provisioning, and configuration management.
- **Leadership:** Led the systems administration and InfoSec teams. Worked closely with the company CEO and lead software developer to move the company forward through a sustained period of 50% year-over-year revenue growth.
- **Software Development:** Software developer and code reviewer on products (like a high-performance MTA / email server) requiring a deep systems and security background.
- **CI/CD Pipelines:** Implemented CI/CD pipelines using GitHub, Semaphore, Testify, and Docker containers to streamline testing and shipping software to customers.
- **HA Cluster:** Developed an active/passive high availability cluster product that uses DRBD and PostgreSQL streaming replication to allow for rapid recovery from hardware failures.
- **Performance Tuning:** Configured Linux HA clusters capable of sending millions of emails and servicing millions of HTTP requests per hour.
- **Documentation:** Wrote most [customer-facing documentation](#) for the company's software.

- **Security Policy:** Advised CEO on the company security policy, took the lead on policy implementation, and trained employees.
 - **Vulnerability Assessments:** Performed vulnerability assessments, analyzed and communicated results to other team members, and implemented risk mitigation measures.
- **Wind Serve** Epworth, GA
Linux Consultant / Software Developer *June 2002 - May 2010*
 - **Cloud:** Implemented disaster recovery and capacity overflow solutions for Linux servers using Amazon Web Services (AWS).
 - **Technical Lead:** Led a Linux, Solaris, and FreeBSD server migration project for the world's largest automotive wholesaler.
 - **Software Development:** Developed web apps and database-related applications.
 - **Vulnerability Assessments:** Performed vulnerability assessments.
 - **Networking:** Designed wireless mesh networks using 802.11 and proprietary 900MHz hardware.
 - **University of South Florida** Lakeland, FL
Research Assistant *October 2006 - March 2009*
 - **HPC:** Maintained a [Beowulf Linux cluster](#) for virtualization research and student labs.
 - **Virtualization:** Created [network labs](#) of virtual Linux routers, switches, and servers used to teach computer science and IT students.
 - **Software Development:** Developed updates for the open source MLN VM management application, including a patch that de-duplicated data to reduce VM disk usage by 97%.
 - **Research:** Collaborated with professors to synthesize results from the above work into [four published academic papers](#).
 - **MCC Life Brokerage** Tampa, FL
System Administrator *June 2000 - May 2010*
 - Sole IT employee managed a network of Linux, Windows, FreeBSD, and macOS systems.

EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
Master of Science in Computer Science; GPA: 4.0/4.0 *August 2017 - May 2021*
- **University of South Florida** Lakeland, FL
Bachelor of Science in Information Technology *August 2003 - December 2006*
- **Polk State College** Lakeland, FL
Associate of Science in Computer Network Engineering Technology *August 2000 - May 2002*

CERTIFICATIONS AND LICENSES

- AWS Certified Solutions Architect - Associate, December 2023 – Present
- Red Hat Certified Engineer (RHCE), September 2022 – Present
- Certified Kubernetes Application Developer (CKAD), Linux Foundation, June 2022 – Present
- Certified Information Systems Security Professional (CISSP), (ISC)², May 2017 – Present
- Security+, CompTIA, October 2016 – Present
- Amateur Radio License, Extra Class, FCC, September 2009 – Present
- Cisco Certified Network Associate (CCNA), Cisco, May 2000 – December 2019

SKILLS

- **Cloud Computing:** Re-architecting on-prem software into SaaS products hosted in Cloud environments. Developing and deploying new applications in Cloud environments. Utilizing Cloud resources to implement disaster recovery and capacity overflow solutions. Experienced with multiple vendors, including AWS, Google Cloud, Cloudflare, and Digital Ocean.
- **Linux and Unix:** Red Hat and Debian-based Linux distributions, macOS, FreeBSD, pfSense
- **Containers and Virtualization:** Kubernetes, Helm Charts, Docker, Podman, KVM, VMWare ESXi
- **Network Services:** Postfix, Exim, qmail, Dovecot, BIND, Apache HTTP Server, Passenger, Redis, NFS, Samba, Artifactory, GitLab, OpenSSH, OpenVPN, ISC DHCP, Graphite
- **Systems Automation:** Managing hundreds of Linux servers using Ansible, Puppet, and Cobbler and CI/CD pipelines with GitHub, GitLab, and Semaphore
- **Programming Languages:** Golang, Ruby, Python, PHP, Perl, Bash, CSS, HTML, JavaScript
- **Frameworks and Libraries:** Ruby on Rails, Jekyll, NumPy, Pillow, scikit-learn, Testify, CloudBolt
- **Database Administration:** PostgreSQL, Redis, MySQL, and SQLite, including performance tuning, replication, disaster recovery, optimizing queries
- **Security:** System hardening, firewalls, IDS/IPS, SSL/TLS, developing security policies, training users
- **Vulnerability Assessments:** Nessus, ACAS, OpenVAS, Nmap, Wireshark, Netcat, Nikto, buffer overflow attacks, gdb, XSS, CSRF
- **High Availability (HA):** DRBD, PostgreSQL replication, pacemaker, STONITH/fencing, load balancers, HSRP, VRRP, Nagios, PagerDuty
- **Networking:** Cisco and Ubiquiti routers and switches, VPNs, firewalls, IPv6, ACLs, LACP/802.3ad link aggregation, 802.11/WiFi, LTE, abusing Linux routing tables in creative ways

SIDE PROJECTS

- **DNSCheck.co:** A Ruby on Rails SaaS with 13,000 registered users that monitors DNS records for changes and provides troubleshooting tools. The SaaS runs in containers distributed through three AWS and Digital Ocean data centers (May 2015 - Present).
- **Computer Science Instructor:** Georgia Tech faculty member teaching KBAI (Knowledge-Based Artificial Intelligence) - a graduate-level course in the College of Computing (May 2021 - May 2022).
- **BOLD Graduate Fellow:** One of [11 students](#) awarded the fellowship out of Georgia Tech's 23,000 graduate students. Developed an [industrial network security lab](#) to challenge computer science students to exploit a buffer overflow vulnerability in OpenPLC (January - May 2021).