

Matt Rideout

King George, VA 22485
423-200-4199

matt@mattrideout.com
<https://www.mattrideout.com>
<https://www.linkedin.com/in/mattrideout>

SUMMARY

Detail-oriented computer scientist with 24 years of experience spanning software development, information security, network engineering, and automation operations. Holds an M.S. in Computer Science and TS/SCI clearance. Certifications include Red Hat Certified Engineer, AWS Certified Solutions Architect, and ISC2's CISSP and CCSP. Known for designing robust solutions, leading teams, and solving complex technical challenges to meet organizational objectives.

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:** Developing Golang, Python, and Ruby on Rails applications as an individual contributor and a development lead. Includes an app that streamlines software distribution between air-gapped networks, reducing labor requirements by approximately 95% and accelerating the organization's battle rhythm.
- **Analytical Applications:** Integrated analytical applications, including the technology stack JWAC uses to deliver interactive web apps to its customers.
- **Configuration Management:** Initiated investigation into Ansible as a unified configuration management tool for Linux, Windows, and network devices. Led my team through a migration from fragmented Puppet, DSC, and Ansible tooling to Ansible Automation Platform (AAP).
- **DevSecOps:** Promoting a culture of testing, code reviews, automation, and documentation. Created a positive feedback loop contributing to a 90%+ reduction in the support backlog.
- **Networking:** Leading the Linux and Kubernetes sides of an organizational IPv6 rollout.
- **Organizational Resilience:** Initiated and championed a comprehensive cross-training program within my division, resulting in multiple team members gaining proficiency across all core services.
- **Hiring:** Collaborating with superiors to add technical depth to the computer scientist hiring process across multiple directorates.

• GreenArrow Email

Lead System Administrator / Software Developer / InfoSec Team Lead

Schneider, IN

May 2010 - August 2021

- **Leadership:** Employee #2. Led the systems administration and cyber security teams. Worked closely with the company CEO through 9 years of 50% annualized revenue growth.
- **Software Development:** Golang, Ruby, and PHP software developer on products (like a high-performance email server) requiring a deep systems architecture and security background.
- **Cloud:** Extended on-premises email software into a [Hybrid Cloud SaaS](#) spanning AWS, Google Cloud, and colocation providers. Included building high-performance hypervisors, establishing backup/restore and monitoring systems, and automating service provisioning and configuration management.
- **HA and Performing Tuning:** Developed an active/passive high availability cluster product that uses DRBD and PostgreSQL streaming replication to allow for rapid recovery from failures. The product can send and receive millions of emails and service millions of HTTP requests per hour.
- **Security:** Advised CEO on company security policy and took the lead on implementation. Performed vulnerability assessments and led the implementation of risk mitigation responses.

- **Wind Serve** Epworth, GA
Linux Consultant / Software Developer *June 2002 - May 2010*
 - **Cloud:** Implemented disaster recovery and capacity overflow solutions for Linux servers using AWS.
 - **Technical Lead:** Led a Linux, Solaris, and FreeBSD server to VM migration project for the world's largest automotive wholesaler.
 - **Software Development:** Developed LAMP stack web applications and workflow automation tools.
 - **Networking:** Engineered custom wireless network routers used by ISPs to implement wireless mesh and hub-and-spoke networks. The routers utilized both WiFi and proprietary 900Mhz radios.
- **University of South Florida** Lakeland, FL
Research Assistant *October 2006 - March 2009*
 - **HPC and Virtualization:** Maintained a [Beowulf Linux cluster](#) for virtualization research and student labs. Created [network labs](#) of virtual Linux routers, switches, and servers.
 - **Software Development:** Contributed to the open-source MLN VM management application, including an enhancement that used data de-duplication to reduce VM disk usage by 97% .
 - **Research:** Collaborated with professors to synthesize the above work into [published academic papers](#) and present findings at an ACM conference.
- **MCC Life Brokerage** Tampa, FL
System Administrator *June 2000 - May 2010*
 - **System Administration:** Managed a network of Linux, Windows, FreeBSD, and macOS systems.
 - **Software Development:** Wrote Python, Perl, and Bash scripts to automate workflows. Developed LAMP stack websites.

EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
Master of Science in Computer Science; GPA: 4.0/4.0 *August 2017 - May 2021*
 - Selected as one of 11 recipients of the [BOLD Graduate Fellowship](#) from a pool of 23,000 graduate students. Created an ICS (Industrial Control Systems) security lab challenging computer engineering students to identify and exploit buffer overflow vulnerabilities in a PLC to sabotage a chemical plant.
 - Interactive Intelligence Specialization: Coursework included Machine Learning, Machine Learning for Trading, AI for Robotics, and Knowledge-Based AI.
- **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

- Red Hat Certified Engineer (RHCE), September 2022 - Present
- Certified Information Systems Security Professional (CISSP), ISC2, May 2017 - Present
- Certified Cloud Security Professional (CCSP), ISC2, April 2024 - Present
- AWS Certified Solutions Architect - Associate, December 2023 - Present
- Certified Kubernetes Application Developer (CKAD), Linux Foundation, June 2022 - Present
- Amateur Radio License, Extra Class, FCC, September 2009 - Present
- Cisco Certified Network Associate (CCNA), May 2000 - May 2019, May 2024 - Present

SKILLS

- **Software Development:** Golang, Ruby (including Rails and Jekyll), Python (including NumPy, scikit-learn, and Pillow), LAMP stack, Bash, CSS, HTML, JavaScript (including jQuery)
- **Machine Learning and Data Analysis:** Teaching graduate-level AI and Machine Learning classes. Analyzing multiple data types, including network traffic, images, server logs, and stock market data.
- **Linux and Unix:** Red Hat and Debian-based Linux distributions, macOS, FreeBSD, pfSense
- **Systems Automation:** Managing hundreds of nodes using Ansible and Puppet. CI/CD pipelines.
- **Cloud Computing:** Re-architecting on-prem software into SaaS products. Developing and deploying new cloud-native applications. Implementing disaster recovery and capacity overflow solutions.
- **Containers and Virtualization:** Kubernetes, Helm, Docker, Podman, KVM, VMWare ESXi
- **Databases:** PostgreSQL, Redis, MySQL, and SQLite. Includes HA and performance tuning.
- **Security:** System hardening, firewalls, VPNs, IDS/IPS, security policies, vulnerability assessments
- **Networking:** Cisco and Ubiquiti routers and switches, VPNs, firewalls, IPv6, abusing Linux routing tables in creative ways, VRRP, running a wireless ISP, licensed Amateur Radio Extra (KJ4PGQ)

EXTERNAL PROJECTS

- **Computer Science Instructor:** Faculty member teaching graduate-level courses in Georgia Tech's College of Computing:
 - **Machine Learning for Trading:** Teaches how to develop AI agents that analyze publicly traded equities and execute machine learning-based trading strategies (May 2024 - Present).
 - **Knowledge-Based AI:** Teaches AI techniques that mimic human cognition and tasks students with building an agent capable of passing a general human intelligence test (May 2021 - May 2022).
- **DNSCheck.co:** A Ruby on Rails SaaS with 16,000 registered users that monitors DNS records for changes, provides troubleshooting tools, and integrates with Stripe, PagerDuty, and Slack (May 2015 - Present).