

# Larry Thomas (Tom) Ratcliff

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**Security Clearance:** Top Secret SCI

## Technical Skills:

**Operating Systems:** Red Hat, Solaris, Debian, ESXi, vSphere, Windows, MacOS, iOS, Android

**Programming Languages:** Python, Go, Java, Perl, Javascript, Typescript (Angular), Bash, HTML, CSS, SQL

**Hardware Platforms:** Dell-EMC, Fujitsu, Oracle, Sun, HP, Cisco, Juniper

**COTS/GOTS Products:** VMware, AWS, Docker, Kubernetes (Openshift), Git, Ansible, Puppet, Terraform, OpenLDAP, Apache, Nginx, MySQL, Qt5, Jupyter, Numpy, Pandas, Matplotlib, Bokeh, D3, Agile, CI/CD, etc.

## Experience

### Spathe Systems – Data Platform Engineer 2021-Present

- Installed, analyzed, and configured cloud agnostic toolsets including database, infrastructure, and operational applications
- Supported implementation of STIG requirements to USSOCOM CDO resources to complete security and accreditation process through appropriate J6 entities.
- Provided sustainment of deployed resources (VMs & Containers) within the Data Platform at USSOCOM.
- Designed and implemented: OCI compliant containers using podman & buildah, helm charts and ansible roles for VM & container deployment, AI/ML data pipelines to support model training and experimentation, highly available & fault tolerant data applications.

### Redhat (subcontract – J2K) – Ansible Automation Engineer

2020-2021

- Helped install, configure, operate, and maintain a private cloud computing environment using Red Hat Enterprise Linux (RHEL) operating systems and Red Hat OpenShift Container Platform (OCP) running on Dell Nutanix Hyperconverged Infrastructure (HCI) with the Acropolis Hypervisor.
- Assisted the USSOCOM on-site team with setting up and maintaining storage, runtime environments, container registries, application containerization tools, and application/container scanning tools.
- Helped set up and maintain Continuous Integration/Continuous Delivery (CI/CD) pipelines using open source and market-leading tools included with OCP and other required tools procured separately by the government
- Developed playbooks, scripts, programs, and/or procedures for the automation of installation, configuration, operations, patching, upgrading, monitoring, and maintenance activities for RHEL and OCP.
- Provided training and technical assistance to on-site personnel so they become proficient at performing development, security and operations (DevSecOps) functions on the OCP environment, with CI/CD pipelines, and managing containerized applications.

**Booz Allen (subcontract – Ironclad) – Senior Systems Engineer**

**2019-2020**

- Helped architect and engineer \$500000+ technical refresh and system solutions for Central Command's Modeling & Simulation Cell.
- Upgraded multiple servers from RHEL 6 to RHEL 7 and setup infrastructure services (LDAP, DNS, NTP, etc.)
- Setup clustered Esxi nodes with vCenter for Windows and RHEL environments for end users.
- Developed applications (python, Go & angular) for end users workflows
- Setup ansible for CM and local wiki (moinmoin), for documentation of system work as well as knowledge management.

**United Technologies Aerospace Systems - Field Service Engineer**

**2010-2019**

- Helped administer and maintained multi-million dollar systems in the Intelligence, Surveillance & Reconnaissance field for the AF-DCGS and OA-DCGS
- System Administer for multiple SUN – SPARC/x86 servers, workstations, SANs, raids and networks.
- Maintained 99.999% uptime required
- Provided real-time support to the warfighter and supporting entities on the ground and air architectures in C3 operations, mission planning and troubleshooting procedures
- Deployed to a theater of operations in our AOR to provide support
- Have taken OEM training from several manufacturers as well as trained fellow co-works and customers in the IMINT community
- Integrated multiple DoD networks through interfacing with multiple agencies

**United States Marine Corps - Electronic Technician / IT Support**

**2004-2009**

- Installed, overhauled, maintained, and repaired multiple types of electronic equipment such as SATCOM, radios, communication, signals intelligence equipment, GPS, servers, power supplies and computer systems in the SIGINT & ELINT community.
- Determined nature and extent of repair required using wiring diagrams, schematics, technical publications, and test equipment.
- Prepared schedules of preventive maintenance; performed quality assurance inspections; maintained a visual information display system
- Soldered and spliced electrical connections; secured and safely wired equipment and components.
- Isolated malfunctions and made necessary repairs to receivers, transmitters, amplifiers, analog and digital computing devices, indicators and display devices, and power supplies.
- Performed scheduled back-ups and data transfers.
- Developed and maintained desktop and training materials for accurate turnovers.

## Education

<b>Johns Hopkins University - Masters of Science in Computer Science</b> Currently Attending	<b>2019-Current</b>
<b>Central Michigan University - Masters of Science in Administration</b> Graduated with a 3.8 GPA; Accepted onto Dean's List	<b>2007-2009</b>
<b>Park University - Bachelors of Science in Psychology</b> Graduated Magna Cum Laude, National Honors	<b>2005-2007</b>

## Additional Education

Courses: RHEL 7, Security +, CISSP, Solaris, Python, Perl, Angular, MySQL, HTML, CSS, Docker, Puppet, Ansible

## Certifications

2019 - Red Hat Certified System Administrator

2017 - Dell-EMC vCenter course

2014 - Oracle ZFS

2013 - Oracle Cluster Administration

2012 - Oracle Containers

2010, 2014, 2017 - Security +, CE

2008 - Journeyman's Apprentice in Electronic Mechanics