

# BRIAN JARRETT

Senior Systems Engineer

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## PROFESSIONAL SUMMARY

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Highly analytical engineering professional with a 30-year foundation in complex system validation, data integrity, and autonomous technology adaptation. Proven track record of entering unfamiliar technical ecosystems, rapidly mastering complex architectures, and becoming a Subject Matter Expert (SME) for the organization's technology stack. Expert in diagnosing legacy infrastructure, verifying data quality at the source to prevent the propagation of bad data and ensure the integrity of the final output, and architecting robust ETL pipelines that merge disparate inputs into high-integrity sources of truth. An objective, narrative-free troubleshooter who translates intricate system data into actionable executive metrics, applying pragmatic innovation—including targeted AI/LLM workflows—strictly where it maximizes operational value.

## TECHNICAL SKILLS

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### Data & Systems Engineering:

- Python (Pandas, NumPy, SQLAlchemy)
- ETL Pipeline & Data Validation
- PostgreSQL, MySQL, Redis
- Systems/Robotics Design

### Systems & Distributed Scale:

- Cisco UCS Servers
- OpenStack (Nova, Heat)
- Hypervisors (vSphere & ESXi, XenServer)
- Ceph Block Storage (RBD)

### DevOps, Security & Leadership:

- Ansible, SaltStack
- CI/CD (GitHub Actions, Jenkins)
- FreeIPA/LDAP, RBAC/HBAC
- FedRAMP
- Qualys Vulnerability/Compliance
- Technical Lead/Mentoring

## PROFESSIONAL EXPERIENCE

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### Cisco | Cloud Engineering Technical Leader

**AUG 2019 - PRESENT (REMOTE) \* INFRASTRUCTURE LEAD: LEAD OPERATIONS OF CRITICAL COMPUTE AND STORAGE SYSTEMS FOR THE WEBEX FOR GOVERNMENT (FEDRAMP) CLOUD. SERVED AS INFRASTRUCTURE TEAM LEAD, ASSISTING SERVICE OWNERS WITH VULNERABILITY REMEDIATION AND FALSE POSITIVE ASSESSMENT AND SLA MANAGEMENT. \* DATA PLATFORM ENGINEERING: DESIGNED AND OPERATED A VULNERABILITY MANAGEMENT SYSTEM USING CUSTOM ETL PIPELINE TO EXTRACT DATA FROM JIRA API AND SYNCHRONIZE TO A POSTGRES SQL DATABASE. BUILT A PYTHON (PANDAS/SQLALCHEMY) WEB FRONTEND FOR SERVICE OWNERS. CONNECTED TABLEAU DASHBOARDS FOR EXECUTIVES TO SHOW THE CURRENT SLA METRICS AND STATE OF VULNERABILITY REMEDIATION. \* COMPLIANCE AUTOMATION: DEVELOPED PYTHON REPORTING TOOLS EXTRACTING DATA FROM STIG XCCDF (XML) FILES AND MERGING WITH COMPLIANCE DATA USING THE QUALYS API TO GENERATE AUTOMATED, AUDIT-READY COMPLIANCE CHECKLISTS. \* SKILLS: PYTHON (PANDAS, SQLALCHEMY), POSTGRES SQL, JIRA/QUALYS APIS, TABLEAU, ANSIBLE, FREEIPA, RHEL/UBUNTU, FEDRAMP, STIG.**

### Cisco Systems | Cloud Engineer - Webex

**JAN 2017 - AUG 2019 (REMOTE) \* IDENTITY & ACCESS MANAGEMENT: DESIGNED AND DEPLOYED A HIGH-AVAILABILITY (HA) FREEIPA CLUSTER USING ANSIBLE TO MANAGE RBAC/HBAC FOR 2,000+ SERVERS, STORAGE AND NETWORK INFRASTRUCTURE ACROSS MULTIPLE DATACENTERS, REPLACING AN AGING, HIGH-OVERHEAD 389DS ENVIRONMENT. \* VIRTUALIZATION & SECURITY: ADMINISTERED LARGE-SCALE COMPUTE ENVIRONMENTS USING VSPHERE ON CISCO UCS HARDWARE. MANAGED QUALYS VULNERABILITY SCANNERS AND ORCHESTRATED REMEDIATION EFFORTS IN COMMERCIAL AND FEDRAMP SITES. \* SKILLS: ANSIBLE, FREEIPA, OPENSTACK, VSPHERE, CISCO UCS, RHEL/CENTOS, WINDOWS SERVER, RBAC/HBAC, QUALYS SECURITY.**

### Select Group @ Cisco | Cloud DevOps/QA Engineer (Contract)

**FEB 2016 - JAN 2017 (REMOTE) \* PERFORMANCE OPTIMIZATION: IDENTIFIED AND REMOVED REDUNDANT NOVA-SCHEDULER FILTERS IN OPENSTACK, REDUCING INSTANCE SCHEDULING TIME FOR 700 NODES FROM 20 SECONDS TO 5 SECONDS (A 75% IMPROVEMENT IN ORCHESTRATION SPEED). \***

**CLOUD INFRASTRUCTURE: CONFIGURED AND EVALUATED RHUI (RED HAT UPDATE INFRASTRUCTURE) AND PROXMOX CLUSTERS FOR INTERCLOUD SERVICES. TROUBLESHOT AND FOUND CRITICAL OPENSTACK CLOUDBASE-INIT RACE CONDITION WITH WINDOWS IMAGES CAUSING CONSTANT REBOOTS. \* CLOUD QA: MANAGED GLOBAL TEST CYCLES FOR COMPUTE AND HEAT COMPONENTS DURING CLOUD UPGRADES. DEVELOPED PYTHON, BASH, AND ANSIBLE SCRIPTS TO PERFORM COMPREHENSIVE AUTOMATED ORCHESTRATION TESTS. \* SKILLS: OPENSTACK, ANSIBLE, PYTHON, BASH, RHUI, CENTOS/RHEL/WINDOWS, PERFORMANCE TUNING, CLOUD QA.**

### **Australian Laboratory Services | Senior Systems Administrator**

**SEP 2014 - JAN 2016 (GRAND JUNCTION, CO) \* STORAGE & VIRTUALIZATION: ENGINEERED AN UBUNTU-BASED CEPH CLUSTER FOR VMWARE ESXI HOSTS. USED CEPH RBD SNAPSHOTS TO MANAGE AUTOMATED SCHEMA TESTING, ENABLING A MAJOR PRODUCTION UPGRADE WITH ZERO ERRORS. \* DATA INTEGRITY & BACKUPS: WROTE CUSTOM PYTHON (SQLALCHEMY) VERIFICATION SCRIPTS TO CHECK FOR MISSING FOREIGN KEYS DURING MIGRATION, PREVENTING DATA CORRUPTION. CONFIGURED BACKUPS VIA LVM SNAPSHOTS AND RSYNC. \* INFRASTRUCTURE & AUTOMATION: IMPLEMENTED SALTSTACK TO MANAGE LINUX VMS AND AUTOMATE PROVISIONING OF CEPH NODES. INSTALLED NAGIOS AND OBSERVUM TO MONITOR NETWORK OPERATIONS AND DECREASE SERVICE RESTARTS. \* SKILLS: UBUNTU, CEPH RBD, VMWARE ESXI, SALTSTACK, PYTHON, SQLALCHEMY, NAGIOS, OBSERVUM, MYSQL, OPENVPN, STRONGSWAN.**

### **Garfield County School District 16 | Senior Systems/Network Administrator**

**OCT 2002 - JUN 2014 (PARACHUTE, CO) \* SYSTEMS INTEGRATION & AUTOMATION: PROGRAMMED A CUSTOM FLASK (SQLALCHEMY) APP SYNCING STUDENT INFO SYSTEMS WITH ACTIVE DIRECTORY AND GOOGLE APPS, REDUCING ACCOUNT HELPDESK TICKETS BY 97%. \* NETWORK & VOIP ENGINEERING: DESIGNED A HIGH-SPEED WAN USING RUCKUS WIRELESS BRIDGES, INCREASING BANDWIDTH BY 6,500% (1.5MBPS TO 100+ MBPS) WITH ZERO MONTHLY SERVICE COSTS. DEPLOYED DISTRICT-WIDE CISCO CALLMANAGER. \* COMPUTE MODERNIZATION: CENTRALIZED DESKTOP COMPUTING WITH WINDOWS TERMINAL SERVERS AND HP THIN CLIENTS FOR 6 LABS, SAVING \$60K+ IN CAPEX. REPLACED LEGACY DATABASES WITH CENTRALIZED POSTGRESQL PLATFORMS. \* SKILLS: PYTHON, FLASK, SQLALCHEMY, PHP, POSTGRESQL, XENSERVER, VIRTUALBOX, CISCO ROUTERS/SWITCHES/PIX, RUCKUS WIRELESS.**

### **Foundational Experience**

**1991 - 2002 \* SOFTWARE QA LEAD (STORAGESOFT/PHOENIX TECH): MANAGED TESTING AND SUPPORT DEPARTMENTS. STRUCTURED QA TESTING WORKFLOWS FOR IMAGECAST DISK CLONING TOOLS AND DESIGNED WINDOWS/LINUX TEST LAB ENVIRONMENTS. \* AIRBORNE RADAR JOURNEYMAN (U.S. AIR FORCE): REPAIRED HIGH-POWER MICROWAVE SYSTEMS, HIGH-VOLTAGE CIRCUITS, AND ANALOG/DIGITAL SYSTEMS ON AWACS AIRCRAFT. \* SKILLS: ANALOG & DIGITAL DIAGNOSTICS, VMS/PC ARCHITECTURE, DISK CLONING (IMAGECAST), SOFTWARE QA, TECHNICAL TRAINING.**

## **EDUCATION & CERTIFICATIONS**

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**\*\*Regis University:\*\* C Programming/Unix courses **\*\*Community College of the Air Force:\*\* Avionics/ Electronics Technician - RADAR Specialist (AWACS) **\*\*Colorado School of Mines:\*\* 2 Years (Electrical Engineering/Physics focus)******