Steve Ryan

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Education

2013–2017	**Bachelors**, *University of Maryland*, College Park, Computer Science

Experience

Vocational

2017–Present — IT Systems Analyst, *University of Maryland*, College Park

Technical and operational support for faculty, graduate students, and administrative staff. Managed a 150+ node Red Hat Linux and Ubuntu environment, as well as a 20+ node Windows Active Directory domain.

Responsible for researching, planning and deploying technical solutions for the department.

Detailed achievements:

- Server and workstation provisioning, deployment, and management using a combination of Satellite, Puppet, and Ansible.
  - Migrated environment from Red Hat Subscription Manager to RH Satellite.
  - Introduced Ansible usage for situations where agent-based configuration management was not ideal.
- Deployed and managed a variety of application servers, including Apache, MariaDB, Vault, Samba, Gitlab, CUPS, and more.
- Provisioned and deployed libvirt-based virtual machines on both bare metal servers and a Red Hat Virtualization cluster. Wrote tooling in Python and Go for VM lifecycle tracking
- Responsible for the management, development, and operations of the departments Apache Tomcat-based automated testing solution, Marmoset.
  - Migrated it to an Ansible based deployment system.
  - Managed semesterly operations including database management and programming language lifecycles (keeping individual programming language environments set up properly to test student code).
- Trained and oversaw the department's helpdesk, staffed by five to eight undergraduate students per semester.
- Won the department Staff Award in 2019 for service to the department.

2015–2017 — Junior Systems Administrator, *University of Maryland*, College Park

Part-time student worker at the Computer Science Department's tier 1 support desk.

Summer 2016 — Software Engineering Intern, *Alarm.com*, Tyson's Corner

Contributed features to internal applications using C# in a dotNET environment.

Independent Research

CI/CD	Automated deployment system using Gitea,Docker, and DroneCI
Configuration Management	Used Ansible to manage multiple bare-metal and VPS nodes and software deployment
Go	Self-taught, wrote many applications including LDAP management tooling and IM bots
Applications	Self-hosting NGINX, OpenLDAP, Postgres, Synapse, Grafana, and more

Languages

Go	Proficient	*Current most used language*
Python	Intermediate	*Used frequently*
Java	Intermediate	
Ocaml/Ruby/C	Basic Knowledge	*Used in either coursework and/or infrequently in personal life (Ruby)*

Computer skills

Linux	Extensive knowledge of Red Hat, Ubuntu, and OpenSUSE	Networking	DHCP,DNS,TFTP/PXE,VLANs and general network topology
Git	Comfortable both using Git and operating Gitlab servers	Service Monitoring	Nagios, Monit, Prometheus, Grafana
CI/CD	Experience setting up CI pipelines	Windows	Knowledgeable about Windows AD and GPO creation

Interests

Homelab/Self-Hosting	I run a six node (and growing) lab in my apartment/the cloud to run services for personal use and to practice new skills
Tea	I am a tea connoisseur and love trying new kinds.
Hiking	I'm a big fan of the outdoors and going on nature walks.

References

References	Available upon Request