

Samuel R. Larimore

linkedin.com/in/larimoresamuel
U.S. Citizen

Summary:

I am a DevOps Consultant with experience in cloud and edge technologies. CI/CD and infrastructure as code have been a great focus of my DevOps career's development. GitOps solutions such as Github Actions seem to pair well with Hypervisor suites Like VMware ESXi. I look forward to leveraging the newest infrastructure as code tools to develop solutions to client's needs.

Languages:

- ❖ Compiled
 - C++
 - C

- ❖ Interpreted
 - Python
 - Bash

- ❖ Data
 - Json
 - Yaml

Projects:

- ❖ LAM Research AAC Upgrade (March 2024 - Ongoing)
 - Installed new version of Aria Automation Config onto LAM system using a three node deployment
 - Walked the LAM team through process for adding single sign-on system to AAC
 - Migrated ~250 minions from the old AAC cluster onto the new AAC deployment.
 - Also upgraded minions as many were still on Salt 3000 or 3005.5 instead of 3006.7 as they should have been
 - Showed the LAM team how to transfer over their security compliance policies over to the new AAC along with their target groups for minions.

-
- ❖ ASL database app development (May 2023 - Ongoing)
 - Working on converting all MySQL stored procedures into SQLAlchemy Python functions
 - Tested converted material against original stored procedures to ensure content is still working as expected
 - Helped other team members learn SQLAlchemy and best conversion practices to help speed along development in other sections of the project

- Created system for using CSV files to upload new data into the database for all relevant tables including the ability to overwrite current table's content with the CSV content
 - Added feature to get requests for all relevant tables to return them under CSV format on request. These CSV files match in format to the upload ones so that they can be edited and used in tandem with CSV uploads
-

❖ HPE conversion from Chef to Saltstack (February 2023 - March 2023)

- Working with HPE, VMware, and TL team to convert HPE's current system from running on Chef to running on Saltstack
 - Created custom grains module to take pre-generated json file and ingest it into the salt system
 - Analyzed and looked through ~280 repos of Chef content to determine what content needed conversion into Salt
 - Working on converting ~200 Chef recipe files into Salt code
 - Demo full new Salt implementation of system to HPE team and answered any and all questions they had about said system and how to use it
-

❖ Communication Platform Automation (November 2022 - Ongoing)

- Created bot for communication server in python to serve multiple purposes
 - Automatically will reply to messages when it detects specific keywords within a user's message
 - Will send a direct message to alert someone when a user enters a specific voice channel
 - Automatically changes the name of user's when entering a designated voice channel and will change them back when they leave the voice channel
 - Upon use of a command by any user it will pull information from an API and report it to the user in a nice and readable format
 - When a message follows a specific format it will scrap that message for a datapoint, store it, and then compare it to other data points from the day to determine which option did the best and store the result
-

❖ Terminal Labs Infrastructure (September 2022 - Ongoing)

- Took over infrastructure as it currently stood for Terminal Labs including Matrix, Only Office, iRedMail, and Wekan
 - Set up automated system for renewing SSL certs for all current and future TL infra systems
 - Enabled Terminal Labs team to add on extra features to their Matrix deployments including message pinning, jump to date, and others.
 - Set up and enabled new user registration so that outside individuals can join Terminal Labs Matrix server and be able to see our public chats.
 - Spun up Nextcloud server to investigate as possible addition to Only Office allowing for easier file syncing
-

❖ Terminal Labs VMware Team (May 2022 - Ongoing)

- Completed dedicated internal Terminal Labs training program over the course of several months to become skilled in VSphere (ESXi and Vcenter), NSX-T, and VMC on AWS
 - Took all associated VMware classes in order to achieve certifications needed to become capable in VMC on AWS
 - Passed VMware Certified Professional Exam for Data Center Virtualization (VCP-DVC)
 - Passed VMware Certified Professional Exam for Network Virtualization (VCP-NV)
 - Acquired Master Specialist VMware Cloud on AWS Badge by passing VMware Master Specialist Exam
 - Engaging in continued on-the-job training by engaging with Terminal Labs contracts for VMC on AWS with the State of Oklahoma
 - Deployed ESXi and Vcenter onto OVH baremetal servers, connected different ESXi hosts, set up cross host migration
-

❖ Bacon Unlimited (July 2022)

- Tested product installation on various smaller linux distributions including Zorin OS and Kali Linux
 - Showed what changes needed to be made for product to work with other linux distributions
 - Created uninstaller scripts for product for all major linux distributions including RHEL/CentOS, Debian, Ubuntu, and smaller distributions as well
-

❖ AgFirst SSC setup (March 2022 - May 2022)

- Dictated necessary specifications for dual node SSC install and for masters to be connected to SSC
 - Successfully deployed and configured a dual node SSC install for client alongside demonstrating how to do so
 - Created a SaltStack Config integration in vRealize Automation
 - Assisted in the creation of VM templates for deployment of salt minions
-

❖ Terminal Labs Wekan (March 2022 - April 2022)

- Investigated infrastructure as code interfacing with the new, up and coming package manager, Snap on ubuntu
 - Modified and developed on experimental Open-Salt modules for Snap
 - Used certbot to spin up SSL certs through Lets Encrypt
 - Created a reverse proxy server for Wekan traffic forwarding
 - Refactored scripts to manage edge case failures in subsequent runs
 - Handled Git conflict resolution through rebase and merge actions
-

❖ VMware Meets Salt (February 2022 - Ongoing)

- Verified successful SSC deployment and salt-master plugin configured
 - Demonstrated nested virtualization with VMware Workstation
 - Deployed Vcenter server for virtualization deployments
 - Configured a system hardware RAID for system failure resistance
 - Utilized ESXI virtualization to deploy the vRealize SaltStack Config
-

❖ Ubuntu dual deployment (February 2022)

- Installed multiple SSD for a dual boot between Ubuntu 20.04 and Windows 11
 - Modified BIOS boot priority to Ubuntu first unless otherwise directed
 - Enabled CPU virtualization for ubuntu sub shell in Windows
-

❖ AWS Multi-node Cluster (January 2022)

- Deployed and expanded basic open-salt cluster
 - Created a POC of multi-master HA cluster
 - Evaluated and troubleshooted salt key vulnerabilities
 - Demonstrated cluster recovery with salt-master and salt-minion disconnect
 - Modified source dependencies for repository additions
-

- ❖ Matrix One-click Deployment (January 2022 - March 2022)
 - Developed open-salt states for server installation
 - Automated virtual environment instantiation and provisioning
 - Generalized deployment for ease of standing up multiple stacks
 - Set up an Nginx reverse proxy for the synapse server
 - Assisted other DevOps engineers with Linux system debugging
 - Spun up aws ubuntu instances for CI/CD deployment
-

- ❖ True Commerce IT (December 2021)
 - Attended course for True Commerce University to learn how to properly manage IT structure for incoming and outgoing requests
 - Learned how to read and interpret x12 EDIs to cover requests from customers.
 - Edited x12 EDIs for incorrect info such as incorrect shipping or billing info so ensure smooth transactions

Aerospace:

- ❖ LMI Aerospace (september 2019 - May 2021)
 - Inspected airplane, helicopter, and other aerospace parts for chemical and organic coatings
 - Performed multiple tests to determine quality and acceptability of parts
 - Audited capabilities of fellow employees and their ability to assess the quality of parts and the work done on them
 - As Shift Lead, managed aero inspectors over the course of their duties
 - Worked closely with other departments to maintain high quality of output

Education:

- ❖ Code Academy Python Certification (2021)
- ❖ Missouri University of Science and Technology (August 2015 - May 2018)
 - Studied computer science and assisted teaching the C++ course
 - University Hall Association Treasurer
- ❖ Lafayette Co C-1 High School (August 2011 - May 2015)
 - Rotary Youth Leadership Award
 - National Honor Society

Hardware:

- ❖ Configured network routers and switches
- ❖ Modified computer BIOS for specialized software installations
- ❖ Soldered & replaced parts for devices such as smartphones, tablets, laptops, desktops, and misc electronics

- ❖ Performed data recovery for corrupted and virus infected computers
- ❖ Designed and provided consultation for desktop builds
- ❖ Successfully executed BIOS wiping and upgrading
- ❖ Mount PCIe cards for motherboard integrations

Tools & Applications

Text Editors:

- Nano
- Atom
- Emacs

Security Tools:

- Lastpass
- LetsEncrypt (SSL/TLS)
- Certbot

File Storage:

- Google Drive
- Dropbox

Enterprise Software

- Saltstack Config
- GitHub Enterprise
- ESXI
- vCenter
- VMC on AWS
- NSX-T

DevOps:

- SaltStack
- Virtualenv
- Conda
- AWS

Operating Systems:

- Ubuntu
- Fedora
- Debian
- Windows
- RHEL
- CentOS

Misc Tools:

- 7-Zip
- OBS
- MongoDB
- jinja2

Servers:

- Nginx
- Apache
- Synapse

Conference Software:

- Google meet
- Zoom
- Discord
- Skype

Revision Control:

- Github
- Gitlab
- Git

Package Managers

- apt
- snap
- Pip
- Conda
- yum