Jordan Garrison

Sr. Infrastructure Engineer

Austin, TX

+1 972-754-0717

linkedin.com/in/jordan-garrison

jordan@jordangarrison.dev

About me

Passionate about my family, coding, home automation, hiking, playing disc golf, jazz, and being actively involved in my local church

Skills

Programming:
Go, TypeScript, NodeJS, Python, Shell Scripting

Automation:
Ansible, Terraform, Pulumi, Nix

Linux:
NixOS, Ubuntu, RHEL, Centos, Oracle Enterprise Linux, Debian, Fedora

Containerization:
Kubernetes

Education

2012-2017 **Bachelors of Science** — Texas A&M Univeristy
Major in Physics, Minor in Mathematics

Awards

2019	Promotion out of New College Hire Program	General Motors
2019	Life Saving Award - Presented by CEO	General Motors
2019	CIO Safety Award - Presented by CIO	General Motors
2018,2019	CIO Distinguished New College Hire	General Motors
2021	Promotion to Senior Infrastructure Engineer	FloSports
2021	Top Performer - Own It	FloSports

Experience

2017-Now **Hadoop Platform Engineer** — General Motors

At General Motors, I work as a Hadoop Platform Engineer to deploy and implement new technologies into the Hadoop stack. This involves engineering and supporting 15 PB core production clusters and multiple development environments for our Business and Data Science users. Projects listed below.

Ranger and Atlas - As the Technical Lead, deployed role-based access to Hadoop production environments. Led a team under a tight timeline to implement Ranger and Atlas services, which allowed easier on-boarding and off-boarding of groups into the Hadoop environment.

Automated Yarn Queue Scheduler - Developed a client based tool written in Go to allow for automated switching of the Yarn Queues for day and night workloads. This implemented Kerberos authentication with no client dependencies utilizeing SPNEGO authorization to the kerberized Ambari server. This led to the development of a framework of libraries and API's to build new tooling off of. Currently, working this tool into a framework to provide automation of all cluster operations.

Hadoop Monitoring System - Authored and maintain a 10,000+ Line Python code base for monitoring cluster metrics from a remote system through the Ambari API's metrics. This system was integrated into Prometheus and an Oracle database to allow for frontend visualizations to be created using Grafana and a custom PHP dashboard. Currently, working to revamp this with a team to better utilize the Prometheus exporter ecosystem to allow fore more scalable monitoring.

2016-2017 **Research Technician and Python Developer** — Lynntech Inc.

At Lynntech, I developed IoT devices and scientific instruments using Python and the Arduino programming language. Projects listed below.

Iodine Detector - This was a small embedded device which detected iodine absorbance in cartridges as a countermeasure in areas of the world where the water system did not meet regulatory standards for iodine content to prevent large outbreaks of hyperthyroidism. The core skills utilized in the project were circuit design, Python programming, Qt GUI design, and extensive testing of device consistency.

Salination Level Detection - This project was a demo where the team took sea water and purified it to drinkable water. My role was to integrate the pH and saline sensors with an Arduino board to validate safe drinking levels. Programmed in the Arduino programming language using the I2C interface to the chips for the sensor probes.

2014 **Data Analyst** — Texas A&M Department of Physics and Astronomy

Research role in the Texas A&M Department of Physics and Astronomy. Worked as a data analyst under Ricardo Eusebi Ph.D. running simulations of the Higg's Boson particle. Programmed in C++ and Bash to run proton collision simulations to produce the Higg's occurrence. This was my introduction into cluster computing and data analytics.