

Nick Farley

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<https://github.com/nfreader> | <https://linkedin.com/in/nickfarley>

Professional Experience

Juvarre LLC | 2022 - 2023

Systems Engineer

DevOps engineer for a public safety software company

- Write and apply Terraform code to manage infrastructure across multiple AWS and Azure accounts
- Selectively applied changes to dev, test, and production environments using GitLab CI/CD
- Monitor for alerts and respond as needed during on-call engineer rotation
- Apply experiences as a software developer to create applications and tools to automate repetitive tasks
- Migrate jobs from a Jenkins server to a GitLab pipeline using Ansible and Python
- Designed a tool to map AWS Route53 DNS records to resources in AWS EC2/S3/Lambda utilizing Python and a static site generator (11ty)
- Collaborate across multiple teams and timezones to determine objectives and deliverables
- Offer advice and suggestions for an ongoing redesign of cloud AWS infrastructure
- Resolve and refine GitLab CI/CD pipelines

Board of Regents of the University System of Georgia | 2020 - 2022

Senior Web Application Developer

Tasked with maintaining existing applications, along with directing development of newer applications

- Lead development of PHP 7 & MySQL applications across a range of business areas, handling a variety of information including PCI transaction data, and data covered by FERPA regulations
- Update legacy PHP 5 applications to modern code standards, working to maintain backwards compatibility while also taking advantage of newer PHP 7 language features
- For all applications, implemented semantic versioning and GitLab CI/CD processes
- Work closely with our systems team to design and implement new web application servers
- Migrate PHP 7 applications from individual authentication to corporate SSO solution
- Developed and documented a docker based developer workflow and led training/implementation of it
- Worked closely with other teams to support core application upgrades, ensuring continuity of business operations and backwards compatibility

Lampe Farley Communications | 2015 - 2020

Lead Developer

Responsible for all technical operations for a marketing communications firm

Skill Sets

Languages

PHP
HTML/CSS
JavaScript
TypeScript
Shell Scripting
Python
Rust
Go

Databases

MySQL
Postgres
SQLite
Redis
InfluxDB

Frameworks

Symfony
Laravel
VueJS
React
Static Site
Generators

Web Servers

Nginx
Traefik
Apache

Orchestration

Docker
Ansible
Puppet
Terraform
GitLab CI/CD
Jenkins

Cloud Infra

AWS
Azure
GCP
DigitalOcean
CloudFlare

- Configure, manage, and maintain 100+ client web applications across a variety of hosting environments
- Migrate high-demand client websites to DigitalOcean linux VPS servers provisioned and operated with a robust set of Ansible playbooks
- Closely monitor and tune PHP 7 web application performance as needed, utilizing high-level tools and troubleshooting with system diagnostic tools
- Enhance our overall security posture by overseeing the rollout of 1Password companywide, adopting second factor authentication, and encouraging a security-focused culture. This has allowed us to take on clients with advanced threat models (e.g. electoral candidates)
- Oversee all IT operations and support requirements for an increasingly distributed office, as well as clients on an as needed basis
- Routinely provide frontend development assistance to coworkers and educate them on best practices
- Create flexible, performant, and responsive Wordpress themes from static design mockups

Systems

RedHat
Ubuntu (Servers & Desktop)
Windows AD
macOS

Reporting Tools

Grafana
DataDog

Hobbies

Homelab to (safely) expose various services to the internet for remote access.

Various personal projects to broaden my knowledge and stay current.

I have various other events I have worked for in a tech capacity including 10000+ person street fairs and 1000+ person camping events. I'm more than happy to talk about these roles during an interview.

Avid tabletop board and DnD gamer

Volunteer Experience

[DeKalb County Fire Rescue Reserve](#) | 2017 - 2020

Operations Manager

Responsible for ensuring the operational readiness of the reserve to respond when dispatched

[DeKalb County Fire Rescue Reserve](#) | 2017 - 2020

CERT Instructor

Lead over 200 sessions teaching DeKalb county residents a range of skills including basic first aid, search and rescue, Stop-The-Bleed, CPR, and CBRN response

[Decatur Book Festival](#) | 2006 - 2019

Lead Troubleshooter

Ensured the smooth operation of a 10000+ person street fair spread over more than a dozen venues, from set up to tear down

[Decatur Arts Festival](#) | 2004 - 2019

Lead Troubleshooter

Developed new load in/load out procedures to ensure that the 10000+ person street fair was successful

Personal Projects

[2202shamrock.house](#) | *Docker, Traefik, Authelia, LDAP, Grafana,*

Experimental homelab testbed project, utilizing Traefik as a reverse proxy, Authelia to authenticate against an LDAP server, Grafana for displaying information, and safely exposing many internal services to the public internet

[Statbus](#) | *PHP, MySQL, Bootstrap, Python, JavaScript, LeafletJS, AWS and VueJS*

Statbus is the front end to the statistics database for a space-themed online roleplaying game. Development of Statbus requires close collaboration between myself and one of the most active open source projects on GitHub. Several large

bugs in the game's codebase were discovered and patched thanks to insights gained while building Statbus. Features include:

- Parsing and displaying information about the games' rounds
- Converting plaintext logfiles into a searchable database
- Displaying data with in-game coordinates on a browser-based map
- Authenticating users with OAuth2 to show their own statistics, and allowing moderators to access restricted tools
- Provides a global read only API that allows other 3rd party tools to digest data
- A live-feed of support tickets from in-game, allowing moderators to keep an eye on things without having to be in-game

Tracker | Python, PHP, MySQL, Vue.js

A three-part application used to capture, store, and show data transmitted by a generic GPS tracking device with a cellular model. A python server listens for incoming data on a UDP socket and parses it into a MySQL database. A PHP based API is used to fetch data from the database for use in a Vue.js frontend.

Gate Scanner | PHP, MySQL, Bootstrap, jQuery

A large outdoor music and arts festival needed a way to scan attendee tickets without access to the internet. I produced a PHP and MySQL application with a jQuery and Bootstrap frontend that worked without incident for several years. My solution was lauded for its ease of use and presentation of useful information.

Previous work and volunteer references upon request