

KATHLEEN FRENCH, M.F.A.

PRINCIPAL SOFTWARE ENGINEER & WRITER

CORE COMPETENCIES

Languages:	Go • Python • PHP • Javascript • Rust • SQL • Groovy • Ruby • Shell • Makefile • YAML • TOML • HCL
Technologies:	Docker • Kubernetes • Kustomize • Helm • Helmfile • ArgoCD • Argo Workflows • Terraform • Jenkins • GCP • AWS • Heroku • CircleCI • Jira • Github • Webpack • NextJS • GraphQL • NGINX • HAProxy • Varnish • GKE • Prometheus • Artifactory • Grafana • New Relic
Skills:	Continuous Integration • Continuous Deployment • Github Enterprise Administration • Documentation • Artifactory Administration • Staging Environment Architecture • Observability • Telemetry • Custom Kubernetes Controllers

EXPERIENCE

Domino Data Lab, New York, NY - Remote Staff Software Engineer I (Distributions Team)	2023-Present
<ul style="list-style-type: none">- Platform Operator - wrote a custom Kubernetes controller (Go) for managing the lifecycle of a Domino cluster for use in both the managed cloud offering as well as the self-hosted customer cluster. Installs and upgrades the platform while simultaneously performing drift detection (with support for drift correction) against the desired state of configured services.- ddctl - wrote a companion command line interface (Go) for interfacing with the Platform Operator to manage installs, upgrades, and reconciliations of Domino's custom resources.- SOCI Controller - co-wrote a custom Kubernetes controller (Go) used by Domino Cloud (AWS) to significantly improve image pull times by leveraging the soci-snapshotter runtime alongside SOCI index support in ECR.- Importer - re-structured the importer command line tool (Python) for improved usability when performing backups and lift-and-shift migrations of the platform. Added end-user alerting for backups failing to upload or pass integrity checks.- Team responsibilities – security hardening of distributed images, release management, writing and editing documentation/runbooks, on-call rotations.	
Vimeo, New York, NY - Remote Principal Software Engineer (Developer Experience)	2019-2023
<ul style="list-style-type: none">- Pacer - wrote a metrics collection service (Go) for Github Enterprise Server that leverages Prometheus's pushgateway to report DORA engineering metrics for downstream visualization in Grafana.- Migrated and redesigned the architecture of the Devex cluster in GKE.- Ebert - wrote an internal application (Go) for handling PR approvals in the Vimeo monolith to resolve bottlenecks around rebasing and re-approvals.- Dex - wrote a command line tool (Go) used by developers at Vimeo to streamline local development tasks, integrate with frequently used third-party APIs, and encourage best practices for writing CI pipelines.- Warden - wrote a full-service internal application (Go/NextJS/GraphQL) for approval workflows surrounding permissions to various services at Vimeo. Integrates, where applicable, with APIs to automate implementation entirely.- Improved Jenkins development builds for the Vimeo application from ~45+ minutes to ~8 minutes.	
Bounce Exchange, New York, NY Software Engineer (Onsite Product Team)	2017-2019
<ul style="list-style-type: none">- Built an in-house, IAB compliant VAST/PAID video player for the ads product increasing impressions, performance, and eliminating monthly licensing costs to a third-party player provider.- Built a Go service API for onsite retargeting of users by identifying previously visited products then returning a range of items based on criteria set in a campaign (minimum, maximum number of products; sorted by recently viewed or frequency of viewing). Deployed using Docker, Kubernetes, and Helm on GCP, integrated with CircleCI.- Moved all client-side JS for the onsite tag from the legacy API codebase to its own codebase, significantly increasing rate and ease of deployments via CircleCI. Integrated with local development environments requiring local-specific Dockerfile and custom configuration of the webpack-dev-server to function with our containerized services on an NGINX reverse proxy.- Added caching in our PHP API to CSS properties used in onsite campaigns that were regularly making expensive queries to the database, cutting database calls-per-minute from 60,000 to 25,000.	
Ephelants, New York, NY Software Engineer	2017
<ul style="list-style-type: none">- Designed and built the functional framework of an early-stage, scalable media distribution, networking, and investment platform in Ruby on Rails for a film production company.- Coded end-to-end user, investor, and networking functionality with authentication, peer-to-peer 'following', subscription access capabilities, and proposal submission to later be integrated with AI selection algorithms.	
Narrative Capital Partners, New York, NY Creative Executive	2015 – 2016
<ul style="list-style-type: none">- Wrote and prepared polished white papers and business proposals for multi-million dollar debt deals used to finance the production of feature films and provide significant ROI for investors.- Identified IP for the acquisition of story rights- Monetized and managed hundreds of domains, designed and managed the company website	
New York University, New York, NY Adjunct Professor	2015
<ul style="list-style-type: none">- Facilitated Introduction to Creative Writing: Fiction & Poetry course for 14 undergraduate students.- Designed course syllabus, lecture plans, and grading structure. Led weekly workshops to evaluate and improve student pieces.	

AWARDS

The Social Good Hackathon at Lesbians Who Tech	2017
Awarded 2 nd Place for SHELTR, a mobile app concept; judged by Uber	

EDUCATION

The Firehose Project, Graduate Software Engineering Program	2017
New York University, MFA Fiction Cumulative GPA: 4.0/4.0	2015
Harvard University, BA English Magna cum Laude Awarded The Cyrilly Abel Prize in Fiction Awarded The Edward Eager Grant	2013