Kirill Kashin

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EXPERIENCE

SRE Engineer
August 2023 – Present

Criteo *Limassol, Cyprus*

- As part of the observability team, led the migration and consolidation of infrastructure during the merger of two companies. Successfully migrated over 50 teams and 600 alerts per hour from Zabbix, unifying the codebase, monitoring tools, and alerting system.
- Designed and implemented a CLI application to consolidate over 30 cron jobs, standardize the codebase, migrate secrets to Vault, and integrate with Kubernetes using vault-secrets-webhook for secure secret management.
- Developed an SLO framework using the Sloth tool, integrated with a Kubernetes operator built on the CRD SDK in Go, to efficiently manage vmalerts instances.

SRE Engineer
May 2022 – Aug. 2023

Tinkoff *Moscow*

- Migrated more than 30 Java services of the TCRM product to Kubernetes (K8s), adapting canary deployment. Assisted in transitioning more than 15 Python services for the T-Messenger product to Kubernetes (K8s) and GCE, implementing blue-green deployments.
- Implemented SLA standards by reconfiguring the monitoring system to align with new service levels, achieving compliance at 99.9% and 99.95% levels, focusing on service-specific metrics. Managed the migration of the monitoring stack from self-hosted ELK/Prometheus to the Sage platform.
- Developed and maintained a load-balancing system using Envoy, enabling seamless configuration updates and effective traffic management for several hundred thousand RPS. Provided SDKs for Java apps, for ACL, Logging, Metrics, Profiling, and Swagger.

DevOps/SRE Engineer
Jul 2019 – Jun 2021

Tinkoff *Moscow*

- Participated in the migration from TeamCity and Bitbucket to GitLab, contributing to a smoother transition. Helped scale service load by over tenfold. Prepared the migration plan from Rancher to Kubernetes (K8s).
- Optimized the team's codebase into a unified CLI tool, streamlining pipeline operations. Established a repository service with configuration files for over 30 services, simplifying deployments.
- Designed and implemented a canary release tool, enabling gradual application rollouts, partial traffic switching, real-time error monitoring, and automated rollback in case of alerts. This resulted in a 90% reduction in incidents caused by issues in new releases.

Tecnical Support Team Lead
May 2017 – Jul 2019

Tinkoff *Moscow*

- Technical support / Incident manager and team lead of 15 people, we are supported by the bank site, mobile apps and payment services.

EDUCATION

National Research Nuclear University
Moscow

Bachelor of Computer and Information Systems Security/Information Assurance *Aug. 2011 – Jul 2015*

CORE SKILLS

Languages: Python, Java
Monitoring: Prometheus, VictoriaMetrics, Grafana, ELK, Loki, OpenTelemetry, Jaeger
Automation/Scripting: Bash, Jinja2, Jsonnet, Makefiles
CI/CD: GitLab, TeamCity, Jenkins
Containers/Orchestration: Docker, Docker Compose, containerd, Kubernetes, Helm, Kustomize
Infrastructure: Ansible, Terraform, Puppet
Load Balancing/Networking: HAProxy, Nginx, Envoy, Istio
Practices: Incident/Alert management, Postmortems, IAC, SLO/SLI Metrics Design, Capacity Planning