Andrey Kaipov

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Experience

Sr Site Reliability Engineer, *Ultimate Kronos Group*, Weston, FL.   *June 2020 – Present*

Cloud Services

- Develop and maintain internal Terraform modules abstracting development teams' access to public cloud services, integrating with our private cloud services API, and helping them transition into the public cloud.
- Developed a CLI and workflow system to automate the management of volume snapshots and backups for our MySQL and MongoDB services to meet our audit deadlines, which were actually nonexistent at the time.

Developer Experience

- Worked closely with traditional Windows sysadmins and application owners to automate the heavily involved and manual configuration of our core products via Ansible playbooks, teaching SRE principles along the way.

Site Reliability Engineer, *Magic Leap*, Plantation, FL.   *Jan 2020 – Apr 2020*

Launch Coordination

- Developed Kubernetes operators to manage GCP resources, extending our internal PaaS to help our product teams transition from AWS to GCP.
- Evangelized the technologies of our SRE sister-squads to our product teams, while helping them transition to newer company-wide standards.
- Performed housekeeping across the SRE organization – upgraded Terraform AWS and GCP modules and projects to use the latest versions, upgraded Concourse pipelines, migrated images from ECR and GCR to our private Docker registry, and added reusable features to our internal tooling for our product teams.

Site Reliability Engineer, *Ultimate Software*, Weston, FL.   *Jan 2017 – Jan 2020*

Cloud Platform & Observability

- Developed and managed a centralized logging, metrics, and alerting platform for company-wide, ingesting over 5TB/day of logs and metrics into our multi-datacenter Elasticsearch and InfluxDB clusters.
- Managed several VM and container-based orchestration platforms for product teams to leverage, including a home-grown PaaS, on-prem Pivotal Cloud Foundry, and on-prem Kubernetes clusters.
- Partnered with product teams to help developers learn about our infrastructure and internal tooling, and to help productionalize their applications and processes.

Software Engineer Intern, *Best Buy*, Richfield, MN.   *Summer 2016*

Skills

Languages	Go, Shell, JavaScript, TypeScript, Python, Ruby, Java, LaTeX.
Tooling	Docker, Terraform, Packer, Vault, Ansible, Chef, Bosh, Concourse, GitLab.
Services	MySQL, MongoDB, Redis, RabbitMQ.
Platforms	Linux, Kubernetes, Cloud Foundry, OpenStack, GCP, AWS.
Observability	Elasticsearch, Logstash, Kibana, Fluent Bit, InfluxDB, Telegraf, Grafana, Sensu.

Projects

kaipov.com/**goobs**	Go client library for an OBS Studio websockets server.
kaipov.com/**funcopgen**	Generate functional options for your Go structs.
kaipov.com/**env2conf**	Convert environment variables into configuration.
kaipov.com/**active-standby**	K8s controller supporting active-standby services.
kaipov.com/**mongodb-pool**	Conveniently manage MongoDB connection pools.
kaipov.com/**tf-chef-solo**	Chef Solo provisioner for Terraform.
kaipov.com/**resume**	An over-engineered resume; you're reading it right now!

Education

BS in Mathematics & Computer Science, *Florida International University*, Miami, FL.   *Aug 2013 – Dec 2016*

Honors: Summa Cum Laude, Phi Beta Kappa, FIU Ambassador Scholar, Florida Academic Scholar.