

# Andrey Kaipov

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## Experience

Jan 2020 –  
Apr 2020

**Senior Site Reliability Engineer**, *Magic Leap*, Plantation, FL.

*Launch Coordination*

- Wrote a Redis Kubernetes operator to manage GCP Memorystore instances, allowing developers to easily request instances when using our internal PaaS for deployments.
- Performed general housekeeping across the SRE organization – upgraded Terraform AWS and GCP modules and projects to use the latest versions, upgraded Concourse pipelines, transitioned from ECR and GCR to our private Docker registry, and added reusable features to our internal tooling for our product teams.
- Evangelized the technologies of our SRE sister-squads to our product teams, while helping them transition to newer company-wide standards.

Jan 2017 –  
Jan 2020

**Site Reliability Engineer**, *Ultimate Software*, Weston, FL.

*Cloud Platform & Observability*

- Developed and operated a centralized logging and metrics collection platform for company-wide use to support ingestion of over 5TB/day of logs and metrics into our Elasticsearch and InfluxDB clusters across multiple datacenters.
- Developed and operated several VM and container-based orchestration platforms for product teams to leverage, including a homegrown PaaS, Pivotal Cloud Foundry, and Kubernetes.
- Partnered with product teams to help developers understand our infrastructure and internal tooling, and to help productionalize their applications and processes.
- Participated in an on-call rotation responding to any escalations from production teams or from our NOC.
- Automated toil away, tracked outages, conducted postmortems, troubleshot all kinds of systems, and followed SRE best practices – the usual.

Summer 2016

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

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## Projects

**env2conf**

A small tool to convert environment variables into configuration files.

- <https://github.com/andreykaipov/env2conf>

**Active  
Standby**

A Kubernetes controller for active-standby application support via built-in services.

- <https://github.com/andreykaipov/active-standby-controller>

**Terraform  
Chef Solo**

A Chef Solo provisioner for Terraform, inspired by the Packer one.

- <https://github.com/andreykaipov/terraform-provisioner-chef-solo>

**MongoDB  
Pool**

A package designed to make managing MongoDB connection pools easier.

- <https://npmjs.com/package/mongodb-pool>

**Object  
Editor**

A web-app to edit and play around with .obj geometry files.

- <https://kaipov.com/obj-editor>

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## Skills

Languages

Shell, Go, JavaScript, TypeScript, Python, Ruby, Java.

Tooling

Docker, Terraform, Packer, Vault, Ansible, Chef, Bosh, Concourse, GitLab CI.

Observability

Elasticsearch, Logstash, Kibana, Telegraf, InfluxDB, Grafana, Sensu.

Platforms

Kubernetes, Cloud Foundry, OpenStack, GCP, AWS.

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## Education

Dec 2016

**BS in Mathematics**, *Florida International University*, Miami, FL.

Concentration: Computer Science.

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