

# Sasha Petrov

Senior DevOps Engineer

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## PROFILE SUMMARY

- **Senior DevOps Engineer** with **6 years** building **production platforms** for **database-SaaS** and **cloud-hosting products**, specializing in **Kubernetes autoscaling**, **GitOps delivery**, and **Terraform at module scale**.
- Hands-on across infrastructure as code (**Terraform** and **Terragrunt**), cloud (**AWS** multi-account: EKS, RDS, S3, CloudFront), orchestration (**Kubernetes** with **Karpenter** and **Helm**), GitOps (**Argo CD**), CI (**GitHub Actions**), secrets (**Vault**), and observability (**Datadog**, **OpenTelemetry**), with strong fundamentals in **networking** and **Linux**.
- Deep expertise in **cluster autoscaler tuning**, **GitOps pipelines**, **multi-account landing zones**, and **OIDC for CI**, using **RFC-driven changes** and **progressive rollouts** to ship **platform changes** product teams adopt **without a migration ticket**.
- Works cross-functionally with **SRE**, **security**, and **14 product teams** in a continuous-delivery environment, leading code reviews and RFCs and holding a **1-in-6 on-call rotation** for the platform.
- Emerging tech lead who mentors 3 mid-level engineers, runs **platform office hours**, and wrote **4 Backstage plugins** the product teams now use to provision their own environments.

## TECHNICAL SKILLS

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| Infrastructure as Code:     | Terraform, Terragrunt, Atlantis, Packer, module libraries, drift detection        |
| Cloud:                      | AWS multi-account (EKS, RDS, S3, CloudFront, Route 53, IAM, KMS), landing zones   |
| Containers & Orchestration: | Kubernetes (EKS), Helm, Karpenter, custom operators, Istio (basics)               |
| CI/CD & GitOps:             | Argo CD, Argo Rollouts, GitHub Actions, Jenkins, OIDC federation, canary releases |
| Secrets & Security:         | HashiCorp Vault, AWS Secrets Manager, IAM least privilege, image scanning         |
| Observability:              | Datadog, OpenTelemetry, Prometheus, Grafana, SLO dashboards, structured logging   |
| Languages & Tooling:        | Python, Go (tooling), Bash, HCL, Backstage, internal Helm chart library           |

## EDUCATION

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|------------------|--------------------------|------------------------------------|
| Brooklyn College | B.S. in Computer Science | Brooklyn, NY · Sep 2015 - May 2019 |
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## WORK EXPERIENCE

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| MongoDB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Senior DevOps Engineer | New York, NY · Jun 2022 - Present  |
| <ul style="list-style-type: none"><li>• Own <b>32 Terraform modules</b> for the Atlas data plane and the multi-account <b>AWS</b> landing zone, covering 4 environments and roughly <b>180 services</b>, with drift checks in Atlantis.</li><li>• Led the <b>EKS migration</b> off EC2 Auto Scaling Groups for the ingestion tier, moving <b>110 workloads</b> onto <b>Kubernetes</b> with <b>Karpenter</b> and cutting compute spend by <b>38%</b>.</li><li>• Tuned the cluster autoscaler and Karpenter provisioners across <b>6 EKS clusters</b>, taking scale-up latency from <b>4 minutes to 45 seconds</b> and p95 deploy lead time from 22 minutes to 9.</li><li>• Built the <b>Argo CD</b> GitOps pipeline for platform charts, onboarding <b>14 product teams</b> and writing 6 RFCs on rollout strategy, drift detection, and secret handling.</li><li>• Replaced long-lived CI tokens with <b>OIDC federation</b> between <b>GitHub Actions</b> and AWS across <b>40 repositories</b>, removing every static AWS key from CI within one quarter.</li></ul> |                        |                                    |
| DigitalOcean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DevOps Engineer        | New York, NY · Jul 2019 - May 2022 |
| <ul style="list-style-type: none"><li>• Ran the <b>Jenkins</b> and <b>GitHub Actions</b> pipelines for 3 product teams, cutting failed deploys by <b>46%</b> through a shared pipeline library and required pre-merge checks.</li><li>• Migrated 60 services from hand-managed VMs to <b>Kubernetes</b> with <b>Helm</b>, writing the base chart the org still uses and the runbooks for the on-call rotation.</li><li>• Instrumented the platform with <b>Prometheus</b> and <b>Grafana</b>, defining the first SLOs for the API tier and cutting median time to detect from <b>19 minutes to 4</b>.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                    |