Maxim Murygin

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SUMMARY

Site Reliability Engineer with 10+ years of experience. First I learned how to code, then went deep into the infrastructure which runs it. Finally got it love with making this software reliable and not to fail, or if it fails to make sure that at least something works, or if nothing works then to make sure that we can at least mitigate it fast, or if nothing helped then make sure that we have a correct postmortem to make sure that it doesn't happen again. Sounds like a dream job :)

TECHNOLOGIES

Programming Languages	Python, Javascript, Go, Bash.
Databases / DataStores	MySQL, PostgreSQL.
Tools	OpenStack, Docker, Kubernetes, Helm, Terraform, Puppet, Ansible, Packer, Nginx, Vagrant, Prometheus, Stackdriver, Grafana, Graphite.
Operating Systems	CentOS, Ubuntu, Red Hat Linux.
Clouds	Amazon Web Services, Google Cloud Platform.

EXPERIENCE

BOOKING.COM — Aug 2022 - Present

Senior Site Reliability Engineer

Technologies: OpenStack, Python, Puppet, Terraform, AWS, Graphite, Grafana, Linux.

Design and implementation of a private cloud platform. Leading the onboarding of critical services (including the one serving mane page of Booking.com) to this platform.

Achievements:

- Unblocked migration of key booking services to Private Cloud. At this moment, more than 10% of the booking workload is served by that platform.
- Played a key role in uncovering and solving a performance issue after migrating critical workload from physical servers to virtualization platform.
- Was a main driver in building comprehensive documentation, performed demos and knowledge sharing sessions to team members and stakeholders to explain how the platform works.
- Created / reviewed dozens of design docs, focusing on reliability and making right trade-offs in a constrained environment. Led the implementation to make sure that solution does satisfy stakeholder needs, reliable, secure and properly monitored.
- In addition to all design / review and coordination work I managed to find time to get my hands dirty and created on average 2 merge requests per week.
- Was a to go engineer for EMs, PMs and GPMs in case when there was an urgent solution needed to unblock a critical path. Looks like I was doing it well, as they were always coming back with even more urgent and critical stuff:)
- Constantly fought with alert fatigue, promoted SLO based alerts and good opdocs. As a result, oncall load was manageable, which sounds like an achievement for a new high loaded platform:)

BOOKING.COM May 2020 - Jul 2022

Site Reliability Engineer

Technologies: Terraform, OpenStack, GoLang, Python, Puppet, Graphite, Grafana, PostgreSQL, Linux.

SRE in Core Infrastructure. Building from scratch and maintaining an integration layer between OpenStack-based Private Cloud and internal services.

Achievements:

- Designed and took a major role in implementation of internal platform which consists of 8000+ VMs and provides a working environment for 2000+ developers
- Guided the adoption of IaC with terraform, developed many internal terraform modules, a few provided and helped AWS team to setup and use private terraform registry.
- In collaboration with Risk and Compliance built a comprehensive list of controls to certify the environment as SOX compliant. Performed a yearly demo to external auditors to get SOX label.
- Onboarded 6 new team members and empowered engineers by example on how to do pair programming.

RUBIUS Aug 2016 - Mar 2020

DevOps / Site Reliability Engineer

Technologies: Google Cloud Platform, Terraform, Kubernetes, Docker, MySQL, PostgreSQL, Python, Linux, Prometheus, Stackdriver.

I was a DevOps / SRE in an outsourced team. We build web services for data processing and for generating training sets for Machine Learning tasks. We processed 10+ terabytes of data and in the peak load our web services handle up to 1200 messages per second.

I was responsible for:

- Building and maintaining cloud infrastructure.
- Building and improving monitoring, alerting, CI / CD pipelines.
- Designing backend architecture to split big monolith app into microservices.
- Setting up the local environment for developers and QAs (with Docker-Compose).
- Troubleshooting backend/infrastructure issues.

Achievements:

- Migrated from monolith to microservices architecture.
- Moved to Kubernetes cluster.
- Implemented CI / CD pipelines and strong monitoring and alerting systems.
- Because of the above, the platform is released multiple times per day.

RUBIUS Jun 2015 - Jul 2016

Senior Backend Developer

Technologies: Node.JS, Python, Linux, Docker, Google Cloud Platform, MySQL.

As the Lead Developer of the outsourced team which worked for a US Company, I was responsible for building backend architecture and optimizing critical requests.

Achievements:

- Implemented the real-time monitoring of production performance

- Gathered the most critical requests in production and optimized them
- Implemented stress tests to prevent performance degradation

RUBIUS Oct 2013 - May 2015

Backend Developer

Technologies: .NET, C#, Microsoft SQL Server

I was responsible for the backend development of the enterprise project management system.

Achievements:

- I made a significant refactoring to make the system testable.
- I increased test coverage from 0% to 30%.
- I showed other developers the value of tests and how to write them. Sooner the test coverage became close to 90%

TOMSK POLYTECHNIC UNIVERSITY Sep 2010 - Jun 2013

R&D Intern

Technologies: C++, MatLab.

I developed a bacterial population monitoring system in a homogeneous medium by building asymptotic solutions of the Fisher-Kolmogorov equation followed by modeling in MatLab.

CERTIFICATIONS

- Certified Incident Responder, 2021
- AWS Certified Developer, 2021-2024
- OpenStack Certified Administrator, 2020-2023
- AWS Certified SysOps Administrator, 2019-2022
- AWS Certified Solutions Architect Associate, 2019-2022
- Red Hat Certified Engineer, 2019-2022
- Red Hat Certified System Administrator, 2019-2022

EDUCATION

TOMSK POLYTECHNIC UNIVERSITY**,** Engineer's Degree in Physics Sep 2006 - Feb 2012

LANGUAGES

Russian - Native, **English** - C2, **Dutch** B1