Maxim Murygin

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SUMMARY

Software Engineer / Site Reliability Engineer with 15+ year career built upon a foundation of backend software development, evolving into a technical authority for infrastructure and platform engineering. Expertise lies in architecting, deploying, and maintaining high-scale environments that support critical business workloads. Adept at technical leadership, improving testing culture, and guiding engineering teams through complex migrations and foundational platform shifts.

Expertise Domain	Technologies
Core Languages	Python, GoLang, Javascript, Bash
Data Layer	MySQL, PostgreSQL, Kafka, SQS
Compute	Containers (Kubernetes), Virtualization (OpenStack), Baremetal (Linux)
Cloud Platforms	Amazon Web Services (AWS), Google Cloud Platform (GCP)
Other	Test Driven Development, DevEx Improvements

EXPERIENCE

BOOKING.COM — Nov 2024 - Present

Senior Site Reliability Engineer

Technologies: Java, Python, Golang, Kubernetes, Puppet

Engaged by leadership to stabilize a highly critical legacy system (distributed jobs scheduling platform), focusing on toil reduction and stability improvement, while simultaneously leading the design and architectural vision for the new Function-as-a-Service (FaaS) platform.

Achievements:

- Architected and spearheaded the development and deployment of the company's first Function-as-a-Service (FaaS) platform on Kubernetes. This foundation, including comprehensive integration design for the networking, data, and deployment tooling layers, directly unblocked a top-priority company initiative: the buildout of the LLM agents platform.
- Prevented a major waste of engineering resources by successfully challenging the proposed multi-component solution for distributed jobs triggering. Advocated for and established an alternative, no-code architecture that also improved architecture overall.
- Led initiative to reduce operational toil and enhance platform stability. Championed the adoption of automation tools, which resulted in the elimination of a significant portion of recurring manual work and improved the reliability posture of the core infrastructure.
- Helped to discover and mitigate one of the biggest security breaches in platform history. Post-incident, conducted the postmortem and drove cross-functional improvements that permanently enhanced company-wide security incident handling.

BOOKING.COM — Aug 2022 - Oct 2024

Senior Site Reliability Engineer
Technologies: Python, OpenStack, Puppet, Terraform, Linux.

Design and implementation of a private cloud platform on top of Openstack with the goal to build a secure and reliable solution and satisfy the needs of a wide range of tenants: internal database platform, legacy but most critical stateless workload, an acquired external company with different technology stack.

Achievements:

- Unblocked migration of key booking services to Private Cloud by being constantly in touch with stakeholders, understanding their needs, delivering requirements to the team and contributing to the solution both by design and coding.
- Played a key role in uncovering and solving a performance issue after migrating critical stateless workload from physical servers to virtualization platform.
- Created / reviewed dozens of design docs, focusing on reliability and making right trade-offs in a constrained environment.
- Performed many demos and knowledge sharing sessions to team members and stakeholders to uncover platform features and internals.
- Constantly fought with alert fatigue, promoted SLO based alerts and good operational documents.
- Regularly acted as a principal technical consultant for Engineering/Product Leadership, quickly diagnosing and delivering complex, time-sensitive solutions that prevented critical path blockers for major product initiatives.

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 yearly demos to external auditors to get the SoX label.
- Onboarded 6 new team members and promoted by example pair programming.

RUBIUS Aug 2016 - Mar 2020
Team Lead / Site Reliability Engineer
Technologies: Google Cloud Platform, Terraform, Kubernetes, MySQL, PostgreSQL, Python, Linux, Prometheus, Stackdriver.

Team Lead managing a cross-functional team while handling SRE responsibilities. Led team of 8 engineers, managed stakeholder relationships, and drove technical decisions. Maintained and enhanced web services for data processing and generating training sets for Machine Learning tasks.

Achievements:

- Setup a solid architecture which survived 100x scale over the next 5 years.
- Led successful migration from monolith to microservices architecture.
- Moved operations from manual to Infrastructure as Code with terraform.
- Grew team from 6 to 9 engineers

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, I was responsible for building backend architecture and optimizing critical requests.

Achievements:

- Implemented real-time monitoring of production performance
- Gathered and optimized critical production requests
- 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:

- Made significant refactoring to make the system testable.
- Demonstrated the value of testing and proper test writing techniques to other developers, rapidly increasing test coverage to nearly 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