

## 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, Message Queues
Compute	Containers (Kubernetes), Virtualization (OpenStack), Baremetal (Linux)
Cloud Platforms	Amazon Web Services (AWS), Google Cloud Platform (GCP)
Architecture	Test Driven Development, Domain Driven Design

## 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 top of 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.

Led the delivery and reliability engineering for a high-scale Private Cloud Platform (OpenStack), establishing a secure and resilient foundation.

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.
- Executed a high-impact, cross-functional initiative (across 5 teams) to optimize CPU pinning and platform configurations, resulting in a quantifiable 10% increase in performance for critical workload.
- Played a major role in architecture decisions, including leading the design for the 'Multi regional' resilience model to ensure all services could withstand cloud failures, effectively simplifying cloud onboarding and improving deployment reliability for all engineering teams.
- Championed a shift to SLO-based alerting and mercilessly eliminated false positives, resulting in a quantifiable reduction in out-of-hours alert volume
- Performed many demos and knowledge sharing sessions across the track to uncover platform features and internals.
- 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. Mentored and onboarded new team members.

## [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.
- Drove a high-risk, foundational architectural work to align VM and Baremetal lifecycle, a complex change that was deployed with zero service degradation or lost bookings.
- In collaboration with Risk and Compliance built a comprehensive list of controls to certify the environment as SoX compliant. Ensured platform compliance by successfully leading first two audit sessions with auditors
- 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.

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## 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

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## EDUCATION

### TOMSK POLYTECHNIC UNIVERSITY, Engineer's Degree

Sep 2006 - Feb 2012