

SUMMARY

Software Engineer / Site Reliability Engineer with a 15+ year history of driving platform evolution and engineering efficiency. 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

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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.

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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.

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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

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

Sep 2006 - Feb 2012