# Yash Shanker Srivastava

## Cloud | DevSecOps | Distributed Systems | Observability | Automation

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## Experience

APRIL 2020 - PRESENT

[Setu](), **Bangalore** – *Engineering Lead – DevOps*

- **Architecture**
  - Architected the entire AWS Architecture around Elastic Container Service.
    - Improved scalability, reliability, and observability.
    - Reduced change release time from over 1 hour to a few minutes.
    - Designed and implemented Canary deployments,
      - This enabled multiple production deployments a day using Terraform and GitlabCI.
  - Architect and implement Platform solutions for Development teams.
  - Review and give feedback to architectures developed by Development teams.
  - Currently working on Kubernetization of the DevOps Platform and Platform Services.
- **Infrastructure, Security, and Compliance**
  - Platformised DevSecOps for the AWS Infrastructure using Hashicorp Terraform and Packer.
  - Reusable, self-serve, and pluggable production-grade Infrastructure as Software reduced developers' overhead to write and manage infrastructure.
  - Built-in AWS Well-Architected features and out of the box Certified RBI SAR and ISO 27001:2013, with hardened AMIs with HIDS(Ossec), NIDS(Snort+PulledPork), AntiVirus(ClamAV), HostMonitoring(PrometheusNodeExporter, MetricBeat), Container Monitoring(cAdvisor), with logs coming into Elasticsearch using Filebeat.
  - Continuous Compliance using AWS SecurityHub + Config + GuardDuty + Inspector + Macie, sending findings as Pagerduty Incidents as well as Slack notifications, and automated weekly audit reports from ScoutSuite and Prowler.
  - SAST using Sonarqube and IaaC compliance using git commit hooks for checkov and tfsec.
  - Site-Site-VPN connection to connect with NPCI's and Banks' infrastructure over private IKE channels, built into the platform.
  - Decentralized ownership of infrastructure to the Development teams, and DevOps owned Platform.
  - The Platform eased the scaling of Setu's infrastructure from 1 live product and a few thousand requests to 7 live products, processing millions of requests and tens of TBs of data a month.
- **Observability**
  - Designed the Observability Stack using node-exporter, cAdvisor, filebeat, metricbeat, elastic-logging-plugin-for-docker Cloudwatch, Elasticsearch, Prometheus, Kibana, Grafana, with alerting and incident management on Pagerduty services with appropriate escalation policies.
  - Setup Application, Container, Database, Host, Network, and Cloud Account Monitoring.
  - Designed Incident Management framework and on-call policies.

- **Operations**
  - Led over 30 3rd Party infrastructure and application security Audits and VAPTs done on Setu's Infrastructure, including ones directly done by the Reserve Bank of India and REBIT.
  - Regularly monitored and optimized AWS costs.
  - Communicating with Vendors like PagerDuty, AWS, Sentry, etc to optimize best deals for their services.
- **Management**
  - Communicate with other Engineering Team Leads for their Platform and DevOps requirements and perform prioritization.
  - Communicate with Banks' Network and Security Teams and propose secure and compliant solutions for services' communications.
  - Hiring and Building the DevOps Team.
- **Evangelism**
  - Took a series of Learning sessions for the Engineering Team.
  - Mentored junior SDEs on Networks, Infrastructure, Systems, etc.

OCTOBER 2018 - APRIL 2020

## [Perennial Systems](#), **Pune** – *Senior Associate Architect – DevOps*

- Setup DevOps practices from scratch, established and led the DevOps and Site Reliability Engineering division at Perennial Systems.
- Setup CICD pipelines in Bitbucket Pipelines, Monitoring using ELK+Beats+APM.
- Involved in various pre-sales activities and designing compliant, fault-tolerant, HA cloud architectures for Cloud-based solutions mostly hosted and managed on AWS.
- Worked as DevOps Engineer for Validus Capital, Singapore, and 2c2p Payments, Bangkok for over a year.

FEBRUARY 2017 - SEPTEMBER 2018

## [The LeanApps Software Pvt Ltd](#), **Pune** – *Software Associate – DevOps*

- Designed AWS Infrastructure, Observability, Build and Release automation for production systems.
- Setup CI/CD Pipelines based on Jenkins for SpringBoot applications, ReactJS Apps, and automated releases of ReactNative applications on PlayStore and AppStore using Fastlane.
- Explored new technologies and implemented them in the applications after a thorough POC.

MAY 2016 - AUGUST 2016

## [PayU Payments India Pvt Ltd](#), **Gurgaon** – *Software Development Intern*

- Developed a self-serve Payment Page customization platform for merchants on PayUBiz.
- Worked on integration and customization of various modules for Enterprise merchants.

# Education

JULY 2013 - JUNE 2017

## University of Petroleum and Energy Studies, Dehradun – *B.Tech Computer Science Engineering*

- Led UPES ACM Student Chapter to the Best Chapter (International) Award.
- Participated and organized various technical events in various Tech Fests.

# Public Speaking

SEPTEMBER 2017

**HashiTalks India 2021, Hashicorp** – *Platformising DevOps with the HashiCorp Stack*

- [YouTube Broadcast](#)
- [Slides](#)

# Tech Stack

| Type | Tech |
|---|---|
| Programming Languages | Python, Bash |
| Cloud | AWS, GCP, Digitalocean, Linode |
| Databases | Postgresql, Aurora, MySQL, DynamoDB, Elasticsearch, Redis |
| Messaging | RabbitMQ / Cloud-AMQP, SQS |
| Ops-sec | Sonarqube, OSSEC, Snort, OSQuery, WAF, ISO27001, PCI-DSS, Prowler, ScoutSuite |
| IaaC | Terraform, Pulumi, CloudFormation |
| Container Orchestration | ECS, Kubernetes(EKS, GKE, SelfHosted), Helm |
| Observability | Prometheus, Cortex, Loki, Tempo, Grafana, Datadog, ELK, Metabase, Redash, PagerDuty, Beats, cAdvisor |
| CI/CD | GitLab CI, GitHub Actions, Jenkins, Fastlane, Travis CI, Bitbucket Pipelines |