GAURAV RAJPUT

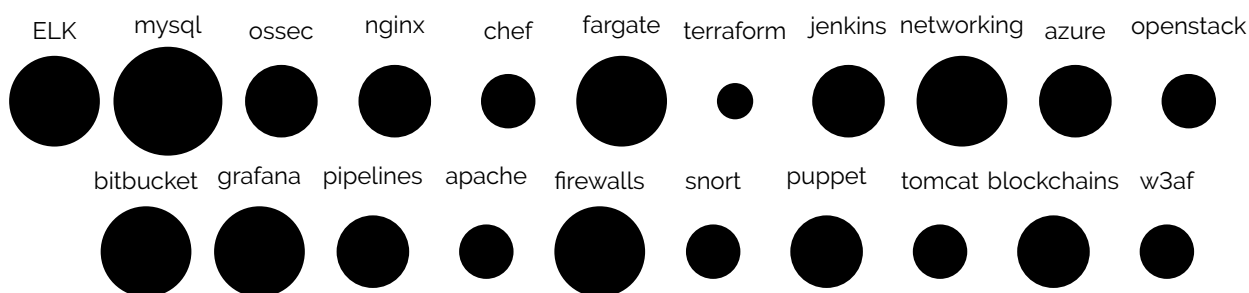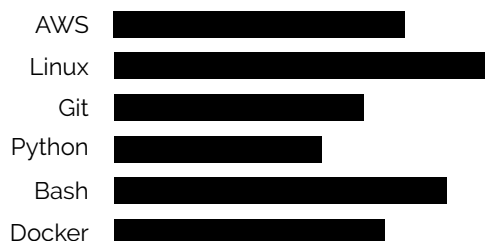## DevOps Engineer

Bangalore, India

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SUMMARY

I am a huge supporter of DevOps culture, living by the philosophy of "automate everything" and experienced working in Fintech, Logistics and Analytics domain, with globally distributed teams. As a Linux Systems' Engineer with skills in system and network administration with hybrid cloud management, Infrastructure security is also an interest of mine. I am a ruthlessly aggressive learner and a team-player. "Skill" is cheap, "passion" is hard to come by - I got both.

- AWS
- Linux
- Git
- Python
- Bash
- Docker

ELK · mysql · ossec · nginx · chef · fargate · terraform · jenkins · networking · azure · openstack

bitbucket · grafana · pipelines · apache · firewalls · snort · puppet · tomcat · blockchains · w3af

EXPERIENCE

Jul 2018–Present
full time

Sr. DevOps Engineer   **Mobisy Technologies Pvt. Ltd., Bangalore, India**

The responsibility includes designing and implementing microservices architecture for new services with the help of some Open Source technology and supporting the existing legacy system, based on LAMP stack.

- Designed and implemented the multi-tier microservices architecture, with the help of docker containers and AWS ECS Fargate service.
- Experienced in managing multi-region large-scale MySQL RDS cluster.
- Designed and implemented automated deployment pipeline using Bitbucket pipelines, Elastic Container Repository and some custom scripts.
- Deployed ELK stack, and integrated it with AWS Cloudwatch with AWS Lambda function.
- Successfully migrated the services between AWS and Azure cloud platforms.
- Created scripts for automated server & database backup/restore as per ISO disaster recovery plan.
- Taking care of the security of the services, with the help of some cutting-edge tools, like Ossec, Snort, W3AF, Firewalls etc.
- Designed and implemented the central monitoring & alerting solution of the services, using Cloudwatch, SNS, Athena and Grafana.
- Automated the management of the EFS Fargate clusters using Terraform.
- Designed the architecture for the EC2 servers, with auto-scaling, along with the network-shared Elastic File System, which helped in cutting down the costs.
- Played major role in achieving ISO certification, from infrastructure point of view.
- Implemented secure VPN access for all the AWS resources, using OpenVPN & AWS VPN service.
- Working closely with heterogeneous developers' teams and orchestrating daily tasks. Empowered them with new tooling.

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AWS  /  ECS-Fargate  /  RDS  /  tomcat  /  EC2  /  S3  /  Route53  /  IAM
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Jan 2017–Jul 2018
full time

Blockchains Enthusiast and Algorithmic Trader   Confidential, India

Acquired basic understanding of blockchain architecture, which includes Smart Contracts, Consensus algorithm and scaling issues. I am experienced in making Algorithmic trading strategies.

- Familiar with many different blockchain technologies, which includes public and private ledgers, i.e. Bitcoin, Ethereum, Byteball etc. Worked on DAG (Directed Acyclic Graph) based blockchain platform, Byteball.
- Designed different trading strategies and backtested them, based upon several technical indicators and social media information.
- Designed and implemented the microservices architecture for different services for trading platform using Docker containers.
- Wrote many command line tools to monitor multiple exchanges in real-time.

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Bitcoin  /  Ethereum  /  Hyperledger  /  Byteball  /  Telegram Bots Platform
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Oct 2015–Dec 2016
full time

Sr. DevOps Engineer   Turvo India Pvt. Ltd., Hyderabad, India

Building and maintaining infrastructure on AWS. Supporting the different projects from global teams (distributed in 3 timezones) was also an important responsibility of mine.

- Created internal tools, to automate the deployment process, using AWS Cloudformation and Puppet.
- Designed and implemented the multi-stage deployment pipeline using Jenkins.
- Implementation of the central logging infrastructure using ELK stack. Used Opsgenie and Cloudwatch to generate & send the alerts through Email/Slack/SMS/Call.
- Performance testing and tuning, using Apache Jmeter and Appdynamics.
- Managed multi environment medium-scale AWS infrastructure. Services used, includes EC2, VPC, IAM, S3, RDS, SNS, Route53 etc.

```
AWS  /  Puppet  /  ELK  /  Opsgenie  /  Solr  /  Apache  /  Tomcat  /  Ruby
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Mar 2015–Oct 2015
full time

Project Manager   Suvidhaa Infoserve, Mumbai, India

Migration of the Aasaanpay's payment technology to Suvidhaa and integration with the existing infrastructure as per PCI and banks' guidelines. Took care of the design, scalability & security.

- Designed the architecture on Bare-metal hardware, Dell & HP Rack-servers.
- Planned and migrated the whole small-scale infrastructure from AWS to Openstack private cloud. Hosted it into the payment bank's data-center which includes the (HSM) Hardware Security Module, servers and Fortinet hardware firewall..
- Designed the highly-available Openstack cluster, using Percona XtraDB cluster, Corosync, Pacemaker, HAProxy, Keepalived etc. Deployed and managed the cluster of different Openstack services: nova, keystone, neutron, swift, glance, cinder, heat, horizon etc,

```
Openstack  /  Percona XtraDB cluster  /  HAProxy  /  Corosync/Pacemaker
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Jun 2013–Mar 2015
full time

Lead Infrastructure Engineer   Aasaanpay Solutions Pvt Ltd, Hyderabad, India

Responsible for ensuring the reliability and high-grade security of Aasaanpay's highly available and fault-tolerant payment services, by using some cutting-edge opensource technologies.

- Played major role (from infrastructure point of view) in successfully receiving the PCI-DSS certification from the authority, to handle the payment cards data.
- Designed and implemented Infrastructure-as-a-code, using Cloudformation and Open Source Chef-server.
- Designed and deployed the centralized package management system, authentication & authorization, logging, monitoring and alerting systems, by using Open Source tools, i.e. Spacewalk, Kerberos, SSSD, 389 directory service, ELK, OpenVPN, Nagios, Ossec, Snort etc.
- Experienced in operating both Public Cloud and On-Premise Infrastructure.
- Designed and implemented secure multi-tier architecture & configured multi-layer firewalls using NACL, Security Groups and iptables, along with SELinux in enforcing mode.

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AWS  /  Chef  /  FreeIPA  /  Nagios  /  Spacewalk  /  Ossec/Snort  /  ELK  /  Selinux
```

EDUCATION

2009 – 2013

Bachelor's Degree   Gautam Buddha Technical University, Lucknow, Uttar Pradesh, India
Computer Science and Engineering