

Nikunj A Shukla

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Summary

A software engineer, having experience of 4.5+ years building, maintaining and architecting large scale systems. I have expertise on developing the systems, AWS(AWS certified solution architect), Kubernetes, Dockers, GCP, monitoring, performance tuning, capacity planning, cost optimisation, deployments, scripting in various languages (go,python, shell, perl) & part time DBA. I have been working on building platforms and tooling for production systems, providing support and consulting for building scalable solutions, doing migrations, deciding monitoring strategies, work on tools which improves developer productivity etc.

Professional Experience and Responsibilities

Software Engineer - Infra - Jan'17 till now

Company : Semantics3

- Build backend using API gateway, lambda function and postgres RDS
- Build DNS auto registration/deregistration service and deployed on lambda
- Build POCs for rendering the product urls using puppeteer in nodejs at scale
- Provision & deploy large scale crawling infrastructure on GCP & AWS
- Build a project which aggregates information from various data sources in Golang
- Build support AWS library in Golang
- Design ETL process which processes the crawling for millions of urls
 - Performance tuning & benchmarking Rabbitmq, Elasticsearch & postgresql
 - Rabbitmq Library in perl and golang for consumer
 - Setup monitoring using grafana, influx and postgresql & PD alerting

Senior Software Engineer - Platform Engg : Aug'15 - Jan'17

Company: Practo Technologies - The #1 healthcare startup of India

- Automating AWS infrastructure provisioning using terraform
- Setup Production level kubernetes cluster with customised VPC networking
- Design the Infra migration plan for acquired companies
- Setup HA VPN tunnel
- Designing the highly scalable, secure and available infrastructure for the microservices or the new product line of Practo
- User management for the 300+ servers
- Setup monitoring and alerting
- AWS related all other tasks -
Capacity Planning | Cost control on AWS | IAM users/role with fine grained control | Setting up the auditing and logging system etc
- On call support
- Figure out SPOF and remove them
- Automate the infra provisioning using python
- Database related projects
 - Migration from EC2 to RDS - Mysql
 - Upgraded RDS
 - Highly available MongoDB cluster
- Improve the application performance by 2x without downtime

Cloud Solution Engineer: Jan'14 – Aug'15

Company: CloudThat Technologies, Bangalore

- Consulting – EmpowerNetwork | Triangle | Akamai
 - o Involved in end to end activities for the client
 - o Designed and managed highly available and scalable MongoDB architecture
 - o Designed and managed highly available and scalable MySQL Percona cluster
 - o Scripts to maintain and provision the AWS infrastructure
 - o Linux and windows administration
 - o Setup Active Directory and DFSR
 - o Migrated dozens of DBs from RDS with zero downtime
 - o Used the following AWS services : Directory services, EC2, CloudTrail, RDS, Route53, VPC, CloudWatch, SNS, IAM, Autoscaling, S3
 - o Did Value engineering for the alpha stage of the product
 - o Had setup F5 load balancer
 - o Automated Infrastructure provisioning for the F5 load balancer using CloudFormation and CloudFormer
- CloudThat
 - o Designed curriculum for AWS for corporate training
 - o Lead the team of interns for the project – Automation of infrastructure administration on AWS
 - o Did POCs on CloudWatch logs, code deploy, CloudTrail, SWF
 - o Setup and own the responsibility of the internal project management tool : OpenProject
- Developed the Project [MySQL to MongoDB Migration Feasibility Analyzer]

Technical Skills

- **Programming Language** : Golang, Python, Shell scripting
- **Tools and platform:**
Vault, Rabbitmq, dynamoDB, Mysql, Redis, NewRelic, Grafana, ElasticSearch, Ansible, Terraform, packer, Kubernetes, Graylog etc
- **Amazon Web Services** :
EC2, S3, RDS, IAM, VPC, Elastic Load Balancer, AutoScaling, Route53, Directory Service, SQS, SES, SNS, AWS, cli, CloudWatch, CloudTrail, CloudFormation
- **System Administration** :
Linux Administration, Web-Servers (Apache, Nginx), FTP, MySql, MongoDB, Python/shell scripting, LAMP stack, setup multisite hosting, user management, SSL generation, cron jobs, memory management,
- **Web Application development** : Python Flask

Educational Qualification

Year	Degree	School/University	Academic Record
2014	B.Tech (CSE)	Nirma University, Ahmedabad	PPI : 7.13
2010	H.S.C. G.S.E.B.	Swaminarayan Gurukul, Bhavnagar	86.0%