

Mayank Kumar

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PROFESSIONAL SUMMARY

- 8+ years experience in Design and Development of Services and Application in B2B, B2C domain.
- 2.5+ years experience in leading a team of 3-6 members.
- 3+ years experience in Design and Development of microservices leveraging Docker and Kubernetes technology.
- **CKAD**: Certified Kubernetes Application Developer.
- Contributing to **Dapr** and k3s klipper open source software.
- Experience in interacting with customers to identify and resolve production issues.
- Using Agile methodology to manage rapid development schedules.
- Proven track record of being a quick learner and team-player; for which awarded and recognized multiple times by peers and management.

SKILLS

Programming: Go, GRPC, Protobuf Objects, Python, SQL, Shell scripting, Sed
Operating Systems: Linux, Windows, Ubuntu, hLinux
Other Areas: Docker, Kubernetes, Kafka Streaming, RESTful APIs, RabbitMQ messaging, HAProxy, Keepalived, Virtualization and Cloud, Git, Hypervisors(ESX, KVM, HyperV), Microservices

WORK EXPERIENCE

Infoblox, Bengaluru (Jul 2017 – Present) Staff Software Engineer

Database Controller

- Designed and developed k8s custom resource to create and manage database servers and schemas.
- Technology Stack: Golang, Kubernetes CRDs.

Backup and Recovery

- Extended K8s API with the aggregation layer to support backup and recovery of cloud managed objects.
- Technology Stack: Golang, Kubernetes aggregation layer.

Troubleshooting Service

- Designed and Implemented microservice for support users to troubleshoot issue with edge devices without actually logging into it.
- Technology Stack: Golang, GRPC, Kubernetes, Teleport.

Edge device activation

- Designed and Implemented microservice for onboarding edge devices to cloud platform.
- Enhanced the existing communication capability between cloud platform and edge devices using TLS/SSL.
- Technology Stack: Golang, GRPC, Protobuf, Kubernetes, ACM PCA, Ingress and Ingress Controllers.

Health Collector and Reporter

- Designed and Implemented reporting state and status information of applications running on edge devices to cloud platform.
- Technology Stack: Golang, Docker, Kubernetes, Redis, GRPC, Protobuf.

Audit logging

- Developed a microservice to capture user interaction with the cloud platform which acts as a base to audit the system.
- Developed a middlelayer to easily integrate the service with other applications.
- Technology Stack: Golang, GRPC, AWS RDS, Protobuf Objects.

Data Collector

- Enhanced the capability of the existing data pipeline solution to capture events from Infoblox NIOS product to multiple vendors SIEM solution.
- Technology Stack: Python, Syslog, ArcSight, McAfee SIEM.

Intellus Learning Inc., Bengaluru (May 2016 – Jun 2017)

Senior Software Developer

Student Interaction Platform

- Implemented student experience platform to track and analyze progress of student registered across curated contents.
- Enhanced the performance of existing modules 12x by implementing in-memory and distributed caching.
- Implemented event tracking to analyze student involvement and retrieve meaningful insights.
- Technology Stack: Python 2.x, MySQL, Django, Nginx, uwsgi, webpy, AWS

Logging Infrastructure

- Worked on enabling application to have logging infrastructure using ELK clusters and Beats (as file shipper).
- Improved issues tracking on distributed production environment.
- Technology Stack: Elastic Search, Logstash, Kibana, Beats

Hewlett Packard Enterprise, Bengaluru (Sep 2012 – May 2016) Systems/Software Engineer II

HPE eon

- Worked on designing and implementing drivers to extend compute capabilities in a deployed cloud service by exposing REST APIs.
- Drivers extended KVM and ESX compute on-demand capability, using ansible.
- Technology Stack: Python, Pecan, Stevedore, Cliff, MySQL

HPE CloudSystem 9.0

- Implemented event based auxiliary virtual machine manager using RESTful APIs to setup and configure complete cloud.
- Designed and developed Active/Active High availability solution using Keepalived as failover VIP provider and HAProxy load-balancer.
- Technology Stack: Python, Shell Scripts, OpenStack, HAproxy, Keepalived, High Availability, Rabbitmq clustering, MySQL Clustering

HPE CloudSystem 8.0 and 8.1

- Worked on major refactoring, additional feature implementation on indexer module which was an entry point for all VM lifecycle operation.
- Implemented messaging based event module to generate instances, network, volumes lifecycle operation events using rabbitmq messaging service.
- Worked on feature implementation and bug fixing on OpenStack. Primarily on Nova and Glance image service
- Technology Stack: Python, Rabbitmq Messaging, MySQL, Oslo library, vCenter SDKs, OpenStack, Cloud technologies

HPE Healthmon

- Worked as a part of team developing monitoring service for cloud resource.
- Implemented inventory management for ESXi hypervisor using VI SDK using oslo_vmware (then a part of openstack module).
- Technology Stack: Python, vCenter APIs, OpenStack (Compute, Glance, Neutron)

EDUCATION

Birla Institute of Technology, Mesra, Ranchi

B.E. in Computer Science & Engineering, **7.63 CGPA** 2008 – 2012

DAV Public School, Dhanbad, Jharkhand

AISSCE, **91.6%** 2005 – 2007

Indian School of Learning, Dhanbad, Jharkhand

AISSE, **84.6%** 2004 – 2005

SCHOLASTIC ACHIEVEMENTS

- Won Innovation Theme Day quiz: Cloud, organized by HP ESSN India RnD
- Research paper titled “Fuzzy-Distance Function Approach for Multiple Criteria Decision Making” published in International Journal for Quality Research (IJQR), Vol.6, No. 2, 2012, 119-124.
- Won Gold Medal on All India Painting Competition 2005 organized by KALANKAN PRAYAS.

[Resume compiled on 2021-04-14 by kumaya]