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Senior Product Engineer
https://hiteshrepo.github.io/

Summary

I have 7 years of experience in developing, maintaining and architecting applications using multiple languages, frameworks and tech-stacks. I consider myself a self-motivating individual who aspires to learn, grow and be resourceful. I also like to document my understanding and new experiences as blog posts and artciles.

Skills

- **System Engineering/Architecture:** Technical Architecture, High Availability & Scalability Principles, Distributed Systems.

- **Container Technology**: Kubernetes, Docker, Logging & Monitoring tools (Datadog), Rancher, EKSA.

- **Cloud Platforms**: AWS.

- **Databases**: SQL server, MYSQL, Postgres, Redis and TimescaleDB.

- **Programming languages**: Golang, Python, C#.

- **DevOps Tools:** Git, Github Actions, ArgoCD, CircleCI, Jira, Confluence.

Work Overview

Infracloud (Aug 2022 - Present) - Senior Product Engineer

Aug 2022 - Present: Cluster provisioning in Baremetal with EKSA integration

Project Description: Essentially enabling users to fill minimal configurations (in UI or CLI) and have backend APIs to do CRUD operations on various resources and use EKSA plugin, custom controllers in order to provision K8s cluster on a baremetal. Also have debug channels to let know users about provisioning status.

Provide users the capability to debug from UI itself.

Tech Stack: Golang, Postgres, Kubernetes, Docker, EKS-A, gRPC, REST.

Roles and Responsibilities:

- Develop and maintain codebases, contribute in architecture, contribute in agile-scrum maintenance.
- Developed and maintained (adding/refactoring functionalities) microservices using Golang scripting, gRPC, REST, Postgres.
- Experiment with EKSA plugin and explore its functionalities in order to provide user the same but in a simpler way.
- Setup testbeds (in Equinix or Vagrant-Virtualbox setup) to test out the developed functionalities.

Thoughtworks (Oct 2021 - Jul 2022) - Senior Consultant

Oct 2021 - Jul 2022: Trading and Pricing System

Project Description: Create a trading-pricing microservices based backend platform to expose APIs to get latest price/orderbooks/candles/historical stats of a crypto assets like BTC, ETH, etc.

Tech Stack: Golang, Postgres, TimescaleDB, Kafka, Kubernetes, Docker, Datadog, Rancher, gRPC, REST.

Roles and Responsibilities:

- Develop and maintain codebase, contribute in architecture, contribute in agile-scrum maintenance.
- Developed and maintained (adding/refactoring functionalities) microservices using Golang scripting, gRPC, REST, Postgres, Redis and Timescale.
- Managed Event driven architecture using Kafka.
- Monitored microservices using Datadog's APM, metrics, dashboard, logs.
- Managed Kubernetes objects configurations and deploying them on across environments.
- Managed CI/CD pipeline using Github actions (runners) and ArgoCD.
- Managed branching and semantic versioning using GitFlow.
- Managed releases (estimation, task delegation, checkpoints) with my peer group's help.

Sureify (Dec 2020 - Sept 2021) - Senior Software Developer

Tech Stack: Golang, Postgres, RabbitMQ, Kubernetes, Docker, Datadog, gRPC, graphql, ReactJS.

Dec 2020 - Sept 2021: Developing a No-Code/Low-Code platform

Project Description: Development of a Web-based product to enable users to create apps using drag & drop components. Also provide ability to integrate APIs, DB queries, etc to fetch data. Idea was to develop applications on the lines of AppGyver(by SAP), UIBakery, Buildr, Retool, etc but multi-tenant based with simpler UI.

Roles and Responsibilities:

- Develop and maintain codebase, contribute in architecture, contribute in agile-scrum maintenance.
- Developed and maintained (adding/refactoring functionalities) microservices using Golang scripting, gRPC, GraphQL, MYSQL and Redis.
- Managed decoupled SAGA architecture using RabbitMQ.
- Monitored microservices using ELK stack.
- Managed Kubernetes objects configurations and deploying them on across environments.
- Managed CI/CD pipeline using Github actions (runners) and CircleCI.
- Worked on frontend functionalities using REACT framework.

Cognizant (Feb 2019 - Dec 2020) – Project Associate

Feb 2019 - Dec 2020: Automation using RPA frameworks

Project Description: Automated various redundant processes for a banking client using Python, Selenium, C#, MySQL. Managed decoupled architecture using RabbitMQ. Monitored processes using ELK stack. Worked on frontend functionalities using REACT framework for Admin console.

Tech Stack: Python, Selenium, C#, Postgres, RabbitMQ, Docker, REST, ReactJS.

Roles and Responsibilities:

- Develop and maintain codebase, contribute in architecture, contribute in agile-scrum maintenance.
- Automated various redundant processes for a banking client using Python, Selenium, C#, MySQL.
- Managed decoupled architecture using RabbitMQ.
- Monitored processes using ELK stack.
- Worked on frontend functionalities using REACT framework for Admin console.

Infosys (Oct 2015 - Jan 2019) – Senior Systems engineer

Oct 2015 - Jan 2019: RICOH and GAP

Project Description: Developed web pages as a part of monolith application using ASP.NET MVC, C#, SQL Server. Deployed the webapps in IIS. Maintained the webpages by fixing bugs and issues.

Tech Stack: C#, SQL Server, IIS, ASP.NET MVC, REST, ADO.NET Entity Framework.

Roles and Responsibilities:

- Develop and maintain codebase, contribute in architecture, contribute in agile-scrum maintenance.
- Developed web pages as a part of monolith application using ASP.NET MVC, C#, SQL Server.
- Deployed the webapps in IIS.
- Maintained the webpages by fixing bugs and issues.

Blog posts / Technical writings / Talks:

- gRPC concepts: https://www.infracloud.io/blogs/understanding-grpc-concepts-best-practices/

- gRPC loadbalancing: https://medium.com/dev-genius/grpc-dynamic-loadbalancing-24d738b079e5

- Multi-Tenant system design: https://medium.com/dev-genius/ticket-management-system-design-c32f948ce3c4
- Understanding taints and tolerations in K8s: https://medium.com/dev-genius/taints-tolerations-and-node-affinity-in-kubernetes-41d063157852.
- Network policies in K8s: https://medium.com/dev-genius/network-policy-in-k8s-14eeeb905bb.
- Talk on 'Microservice Communication using gRPC':
https://www.linkedin.com/feed/update/urn:li:activity:7078232488233373696/

Honors and Certifications

- Linux Foundation CKAD certfication: https://ti-user-certificates.s3.amazonaws.com/e0df7fbf-a057-42af-8a1f-590912be5460/0a7c5003-3e42-42e6-91b7-6746427872ee-hitesh-kumar-pattanayak-4f81e509-42d0-4205-a165-8fb54e333ac3-certificate.pdf

- AWS community builder: https://aws.amazon.com/developer/community/community-builders/community-builders-directory/?cb-cards.sort-by=item.additionalFields.cbName&cb-cards.sort-order=asc&awsf.builder-category=*all&awsf.location=*all&awsf.year=*all&cb-cards.q=Hitesh%2BPattanayak&cb-cards.q_operator=AND

- KodeKloud CKAD certification: https://kodekloud.com/certificate-verification/7C93AD7ED0-7C9992E1F1-7C8D7A6E28/

- Value ambassador award at Infracloud for March,2023:
https://www.linkedin.com/feed/update/urn:li:activity:7044552619712815104/
- Hackathon winner at Sureify for creating a chatbot using Python, RASA framework and ML:
https://docs.google.com/presentation/d/1871lZczt2J5yqcImu9U6S05EBVVb_4_d6_L7-7mZvv4/edit?usp=sharing
- Star of the month for Backend at Sureify for month of Aug, 2021.
- Rookie of the year at Cognizant in May, 2019.
- Spotlight award at Infosys in April, 2016.