HET JAGANI

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SUMMARY

Focused and quick-learning software engineer skilled in architecting and implementing backend application systems and pursuing specialization in Enterprise Software Technologies and Cloud Technologies.

TECHNICAL SKILLS

Programming Skills	C, C++, Golang, Java, Javascript, Python, BASH, Aspect Oriented Programming (AOP)
Web Technologies	HTML/CSS/JS, React, RESTful APIs, GraphQL
Cloud Technologies	Docker, Kubernetes, AWS, Event Queues, Serverless Architecture
Databases	MySql, Postgresql, MongoDB, Redis
Frameworks & Tools	NodeJS, Spring Boot, Jenkins, Git, Ansible, Github CI/CD, Kafka, UML Modeling

EDUCATION

M.S. in Computer Software Engineering - San Jose State University, California **(Jan. 2021 - Dec. 2022)**
Courses: Software Systems Engineering, Ent Distributed Systems, Ent Application Development

BTech in Info and Comm Technology - Ahmedabad University, Gujarat **(Aug. 2016 - May 2020)**
Courses: Software Engineering, Advanced Data Structures & Algorithms, DBMS, Cloud Computing, Computer Networks

WORK EXPERIENCE

Backend Developer: Factly.in (Github) **(Jul 2020 - Dec 2020)**

- Contributed in development of open source Content Management System (CMS) and tools facilitating journalism and fact checking for multiple organisations.
- Assisted in planning of future development of features and integrations for CMS (Dega). Tech stack used for building web applications consist of Golang, React, PostgreSQL, Ory Stack (for authentication services), Redis, NatsIO, Docker, GraphQL.

Bhaskaracharya Institute For Space Applications and Geo-Informatics (Github) **(May 2019 - July 2019)**

- Developed a general-purpose video analytics software leveraging Machine Learning algorithms to perform video processing. The software was build in python with Tkinter framework for GUI and Darknet & Coco models for object Detection.

ACADEMIC PROJECTS

Indeed Clone (Github) (Demo)

- In this project a job board (portal) web application was created similar to Indeed. This application enables users to login as employers/job seekers, where job-seekers can apply for jobs that are posted by employers.
- In designing of backend microservices architecture pattern was used which made application scalable and reliable. Caching was used which improved average latency of requests by about 200%.
- **Technologies Used:** Nodejs, React, MongoDB, MySQL, Kafka, Docker, Redis, AWS, JMeter, Mocha (Unit Testing Backend).

Uber Eats Clone (Github)

- A distributed food delivery application similar to Uber Eats. Users can add restaurant and add menu of food items they serve. Customers can filter restaurants based on location, delivery type etc and order food from restaurants.
- Kafka message broker service is used for reliable create/updates of resources in distributed micro-services backend. Using it improved the throughput of the requests by 17% in higher user load situations when tested using JMeter.
- **Technologies Used:** Nodejs, React, MongoDB, Kafka, Docker, Redis, GraphQL, AWS, JMeter, Mocha (Unit Testing Backend).

Vidhyapak, Video Streaming Application (Github)

- Online education platform similar to Gyapak file sharing ecosystem adopted by Ahmedabad University.
- Deployment was done initially on Docker Swarm Cluster, but later was shifted to Kubernetes Cluster on AWS EC2 which improved overall performance by about 25% due to better container networking in Kubernetes.
- **Technologies Used:** JAVA, Spring Boot, MySQL, Docker, Kubernetes, AWS, XenServer, FreeNas.

Cloud Cost Calculator (Github)

- Web application to calculate cost summary report of cloud resources in Amazon Web Services. The application provides list of all resources supported by AWS.
- User can select resources suitable for his/her need and application provides weekly & monthly cost report with an option to download in PDF.
- **Technologies Used:** Angular, AWS Pricing API, Docker, Ansible, AWS, Bootstrap.