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

Software Development Engineer Intern: Amazon Robotics **(Jun 2022 - Aug 2022)**

- Was part of virtual services team that owns a simulation tool (PerfPlat) to test production software by running a simulation of warehouse environment virtually. The tool helps data scientists to run simulations of warehouses and generate analytics reports from the runs.
- Worked on integration of the tool with an existing launch service (Concept Explorer) being used by team's customers, to provide better customer experience for team's product and also reduce development costs to add new warehouse types to existing system.
- **Technologies Used:** Java, AWS Lambda, Dynamo DB, AWS CDK, Pipelines for CI/CD.

Golang Developer - Research Assistant: San Jose State University **(Jan 2022 - Dec 2022)**

- Worked on implementation of library in Golang for Dempster's Rule of combination for evidential analysis for pharmaceutical drug development.
- Improved performance of Dempster's Rule algorithm by implementing it in parallel. Helped to gather timing data from Golang to prepare proposal for further research in improving algorithm performance.
- **Technologies Used:** Golang, Python, Git.

Backend Developer: Factly.in (Github) **(Jan 2018 - Dec 2020)**

- Contributed to the development of open source Content Management System (CMS) and tools facilitating journalism and fact-checking for multiple organizations. Assisted in planning the future development of features and integrations for CMS (Dega).
- Developed command-line application scripts to migrate existing websites from WordPress to newly developed Dega CMS. Developed scalable open-source webhook service to notify activity of application on various chat platforms (such as Slack, Google Chat, etc.).
- **Technologies Used:** Golang, Python, React, PostgreSQL, Github CI/CD, Ory Stack (for authentication services), Redis, NatsIO, Docker, GraphQL.

PERSONAL 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).