Jainish Parikh

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Education

M.S. in Software Engineering SJSU, USA *August 2019 - May 2021*

B.E. in Information Technology L.D. College of Engineering, India *August 2015 -May 2019*

Projects

Yelp Prototype(MongoDB, ReactJS, NodeJS, REST, Docker, AWS, Kafka, Redis)

- Independently built Full-Stack web application with MERN stack which is a prototype of Yelp.
- Built interactive frontend and APIs to support functionality to register for events, place and track orders, search for restaurants nearby, provide reviews and locate them using google maps on the User side.
- Provided functionality to post events, change and manage order status, add and manage dishes on the restaurant side.
- Integrated Kafka in the backend for handling a large number of concurrent requests along with data caching using Redis.
- Tested the backend with concurrent requests using Jmeter and mocha.
- Dockerized and deployed the application in AWS with autoscaling group and load balancer on top.

Opinion Miner (Django-Python, Jenkins, Docker, Kubernetes, AWS, MongoDB)

- Developed a Neural Network for sentiment analysis of user opinions for business products.
- Collected user opinions using Twitter API to mine and process tweets for Deep Learning model.
- Developed REST APIs in Django for data collection and learning sentiment of user opinions to serve front-end.
- Jenkins and Docker were used for Continuous Integration and Deployment along with Kubernetes for cluster management.
- Visualization of results in the front-end was done using jQuery, HTML, CSS, and D3.js

NoSQL peer-to-peer Database (Java, REST, Docker, CAP)

- Developed a peer-to-peer always Available, Partition Tolerant and eventually Consistent (CAP) database system.
- Decentralized system with multiple nodes which incorporated a broadcasting mechanism for peer-to-peer communication.
- Wrote REST APIs in Java to sync CRUD operation across all replicas.
- Used vector clocks for create, update and delete conflict resolution across all nodes.

Experience

Juniper Networks, Sunnyvale, CA, US *July 2021 - Present*

Software Engineer

- Developed monitoring service using python and deployed in Kubernetes production environments.
- Worked on developing a python based tool which periodically snapshots cloud resource usage across clouds providers.
- Created Dashboards, Metrics, and generated alerts for various services in monitoring tools such as SignalFx and AWS CloudWatch using Terraform.
- Used Terraform to create and manage resources in AWS environments.
- Reduced on-call time to solve production issues by documenting monitoring and System design diagrams.

Intel Corporation, Santa Clara, CA, US *September 2020 – December 2020*

Software Engineer Intern

- Built the Continuous Integration pipelines in GitLab which includes spinning up docker containers, building packages which helped reduce job queue length by more than 50% and hence made the system faster.
- Wrote Shell scripts to automate the process of building Docker containers with dynamic package installation and storing images into Artifactory.
- Used Docker-in-docker to build and deploy containers during the Continuous Integration process.

Solusoft Corporation, Ahmedabad, India *March 2019 – May 2019*

Backend Developer Intern

- Lead a team of interns in developing a full-stack application using python Flask which categorize emails through severity using NLP and provide visualizations to perform data analysis.
- Conceptualized and successfully built a sentiment classifier using Keras which categorized emails according to severity.
- Wrote REST APIs to fetch emails periodically and integrated ML model to perform sentiment analysis.

Skills

- **Languages -** Python, Java, C, Golang, Shell **Frontend -** HTML,CSS, JavaScript, ReactJS
- **Database -** SQL, MongoDB, Redis **Backend -** Django, Flask, NodeJS, ExpressJS, PHP, GraphQL
- **Cloud Technologies/Services -** Docker, Kubernetes, Kafka, Terraform, Jenkins, AWS, GCP, GitLab, GitHub, Artifactory
- **Machine Learning-** Keras, NumPy, Pandas, Scikit-Learn, RNN, LSTM, GRU, Natural Language Processing