Akshay Parseja

B Tech Comp Science - 2018-2022

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Summary

Experienced engineer proficient in Java Spring Boot, with a recent focus on successfully migrating microservices-based applications to the cloud. Adept at designing and implementing cloud-native architectures using GKE .

Specialized in containerization and orchestration using Docker and Kubernetes, ensuring seamless and scalable deployment.

Establishing automated CI/CD pipelines for efficient development workflows.

Documented processes comprehensively, facilitating knowledge transfer and team onboarding. Proven ability to lead successful cloud migration initiatives and enhance overall system performance.

Work Experience

Cloud Engineer & SRE   Feb 2024 - Present

Ather Energy

Project : Vehicle Data pipeline

Technologies/tools used: Springboot, Kubernetes(k8s), Docker, Devtron, Argocd, CNCF, Kafka, GCP(Google Cloud Platform), Cloud Flare, APISIX, NGINX

Description :

This Project involves extensive work towards Platform engineering aswell as Roles fixated towards SRE .

- Successfully orchestrated the deployment of numerous microservices on Google Kubernetes Engine (GKE) with NGINX for advanced routing capabilities using Devtron and ArgoCD for streamlined management.
- Played a key role in stabilizing cloud environments by establishing a robust logging and monitoring infrastructure using Elasticsearch, Kibana, Alerta, and Prometheus across microservices. Implemented proactive alerts and troubleshooting strategies to enhance availability and reliability of critical applications.
- Efficiently managed Google Cloud Platform (GCP) clusters via Terraform, optimizing resource allocation and ensuring high availability of compute nodes for diverse application workloads.
- Implemented various open-source solutions including Shlink, NGINX, Kafka, and Kubernetes operators to meet specific project requirements effectively.Engineered intricate Grafana dashboards for monitoring Spring-based microservices.
- Led deployment and management of Kafka brokers with Strimzi across 30+ applications, leveraging Grafana for detailed consumer lag analysis and operational optimization.

Software Engineer(Java Developer & Cloud Engineer)   January 2022 - Feb 2024

UBS

Project : Web Application

Technologies used: Java Spring Boot, Maven, DevOps, Jira, GitLab, JSP, Kubernetes, Helm.

Description:

The project involves working on multiple functionalities and focused on migration to Cloud

- Implemented robust monitoring solutions to track application performance, resource utilization, and errors.
- Integrated AppDynamics for real-time application performance monitoring, enabling proactive identification and resolution of bottlenecks and performance issues.

Skills

DevOps

Kubernetes, Prometheus , Grafana,CNCF,GCP

Software Development(Web/Desktop)

Backend: Django, Flask,SpringBoot
Frontend: HTML, CSS, QML

Programming

Python, C++,Java

Open GL

Bot simulations

Deep Learning

Tensor Flow, Keras,NLP,Spacy,NLTK

Machine Learning

Databases

PostreSQL, Oracle

Micro-controller and Microcomputer

Arduino, Raspberry Pie

- Implemented HashiCorp Vault for secure storage and management of sensitive information, including credentials and configuration data
- Worked on spring vault configuration to migrate passwords out of the application.
- Added a new requirement in JSP and java. Functionality included a new feature for uploading a document depending on a specific type of engagement .

Intern   July 2020 - Nov 2020
Greenmed Technologies

Project : GUI for medical devices

Technologies used: QT/Qml,c++,sql,js,html

Description:

Tasked to develop a graphical user interface for medical Devices(Ventilator and Bscan) .The gui is a completely touch screen. Doctor/user has been provided with services of selecting modes, admitting patient and more. Providing with live feedback of data through graphs is one of the prominant feature.

IEEE Publication   February 2020 - April 2020
https://ieeexplore.ieee.org/abstract/document/9214247

Project : HateSpeechDetector

Technologies used: TensorFLow, Keras, Spacy, Python, Flask, Html.

Description :

Objective: Increase awareness of hate speech in blogs, forums, and newspapers.
Focus: Identify and categorize content promoting violence or hatred based on religion, gender, ethnicity/race, or disability.
Method: Trained model on diverse, preprocessed datasets.
Algorithm: Classify text using word2vec embeddings and CNNs.
Deployment: Integrated with Flask API on Heroku.
Outcome: Developed tool for users to classify and monitor hate speech effectively.

Chief Operating Officer   Aug 2019 - Present
Trident Labs

Project: Autonomous Underwater Vehicle (AUV)

Technologies used: Python and Qt Designer/Creator (package:
PyQt for Python)

Description:

Was tasked to create a graphical user interface (GUI) which was used by the teams in Trident labs for tuning, testing and solving erroneous plots of the various values projected by our Autonomous Underwater Vehicle (AUV). The GUI actually depicts the full simulation of the bot as it performs underwater.

This project was our showcase entry to the prestigious competition at Singapore specially dedicated for autonomous underwater vehicles (SAUVC).

Project Intern   Oct 2018 - Dec 2019
Treeni sustainability Solutions

Project: Real Estate Web Site

Technologies used: Python+Django, Postre SQL, HTML5, CSS, JScript

Description:

This project aims at making a website to selling real estate properties, where realtor for houses are already allotted and can be contacted for signing agreement or to arrange a meeting for any sort of business related to that particular real estate.

Education

Bachelor's Degree in Engineering (B.Tech Comp. Science)   2018 - 2022
Vishwakarma Institute Of Technology

Junior College (ISC)   2016 - 2018
The Bishop's School, Pune

High School (I.C.S.E)   2004 - 2016
The Bishop's School, Pune