E7, Kartikey Nagar
Vadodara, Gujarat

Pratik Sheth

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CAPABILITY

Cloud Architecture (CloudNative/AWS)
- Designed and implemented the automated aws deployment for NextGen GRC Product which include creating appropriate helm charts and internal toolsets like loki-stack, OPA, SpinnakerCD (Maintenance Mode), FluxCD (Development Mode).

Data Engineering
- Design and Implementation of Production-grade Data Pipelines with numerous service level requirements. This includes data ingestion, storage, preprocessing, transient retention, processing and data egression.

Machine Learning
- Designing, developing and deployment of ML models with numerous use cases with experience in recommendation engine and NLP.

EMPLOYMENT

CLOUD ARCHITECT	APPSIAN TECH PVT LTD, BENGALURU (Now Part of Pathlock)	JUNE 2021 - JAN 2023

- **APPSIAN CLOUD (Now Pathlock Cloud)**
Designed and Implemented AWS infrastructure automation (Terraform) to set up SOC2 Compliant AWS resources to create EKS cluster and its peripheral provisionings (Network Security and Policies) for CloudNative SaaS infrastructure. I handled the cloud native implementation of various products (Helm Charts), Implemented CI pipelines on Azure Devops, Administered and created CD pipelines on SpinnakerCD and FluxCD, Automated deployment of EKS for each selected region and administration of 8 such clusters with internal CloudNative tools such as Loki, Grafana, Prometheus, OPA, External Secrets (6 clusters with many live customer tenants in 4 geographical regions distributed across 5 aws accounts). I provided support services for aws infrastructure to internal stakeholders.

INFRASTRUCTURE ARCHITECT	APPSIAN TECH PVT LTD, BENGALURU	DECEMBER 2020 - JUNE 2021

- **APPSIAN360**
Worked as Infrastructure Architect for an analytics product that takes ingestion (Filebeat, Logstash, Fluentd, Elasticsearch, Kibana) from SAP, EBS and Peoplesoft environments from custom plugins made by organization. Handled automation of On-prem deployment automation of product and support activities for high value customers

DATA ENGINEER	EVERLYTICS DATA SCIENCE, BENGALURU	FEBRUARY 2019 - NOVEMBER 2020

Product Development:

DESIGN THINKING, PLANNING AND IMPLEMENTATION OF MIGRATING THE ON-PREM ANALYTICS PRODUCT TO KUBERNETES
- Migrated the whole in-house platform called 4Pointx (Industrial Analytics of Things Platform) to kubernetes.The data was ingested through MQTT brokers to Kafka and then ingested in ELK and Post processing was done through organization's internal orchestration tool. The design aspect included scalability, high availability, fault tolerance, data persistence, monitoring and disaster recovery.

DEVELOPMENT OF A CUSTOM DISTRIBUTED FRAMEWORK FOR ORCHESTRATING ML MODELS TRAINING
- Developed a framework for ML model training orchestration that will schedule and move training jobs to different hosts depending on availability of the resource.

Services Contracts:

RECOMMENDATION ENGINE THAT WORKS WITH SMALL AMOUNT OF DATA
- Developed a production grade recommendation system on AWS using MAB based technique with Thompson Sampling to work with the limited amount of data.

ENTITY RECOGNITION SYSTEM FOR UNSTRUCTURED DOCUMENT IN IMAGE FORM
- Client needed to extract the important features from images which consisted of a bunch of documents. It included converting images to text and using the distance algorithm on vector embeddings to find required features from the text. (Production Grade)

SCALABLE BEHAVIORAL ANALYTICS PLATFORM DESIGN
- Designed a behavioral analytics platform for client in which I was required to reliably ingest the streaming data from end user devices to elasticsearch cluster with fault-tolerance as a requirement.

DATA PIPELINE TO INGEST IT/OT DATA (DESIGN AND IMPLEMENTATION)
- Designed and implemented streaming data pipeline that takes IT/OT data from a huge number of Nozomi routers and ingests into kafka with highly available schematics.

MEGHA HEALTH INSURANCE SCHEME
- Worked and collaborated with the field team to verify and move the beneficiary of the scheme from the State government database to Central Government Reports.

MANAGEMENT INTERN	TOPS TECHNOLOGIES, AHMEDABAD	Sept 2016 - Dec 2016

- Full Time Internship for academics. Worked on several projects that included streamlining the content quality process, Market strategy and moving the platform to scalable software architecture.

MANAGEMENT INTERN	LARSEN AND TOUBRO - ELECTRICALS AND AUTOMATION, VADODARA	July 2015 – Aug 2015

- Internship for understanding the work of HR in a sizable organization. Revised and proposed changes in safety and security of the plant.

EDUCATION

| AHMEDABAD | GUJARAT TECHNOLOGICAL UNIVERSITY | Sept 2011 – June 2017 |

- **MASTER OF BUSINESS ADMINISTRATION**, Technology Management, **9.1** CGPA, **Sept 2015 - June 2017**
- **BACHELOR OF ENGINEERING**, Information Technology, **7.9** CGPA, **Sept 2011 - June 2015**

LANGUAGES AND TECHNOLOGY

Languages : **Python, Java**
Infrastructure Automation: **Terraform, Terragrunt**
Data Ingestion : **Apache Kafka, Logstash, MQTT**
Processing : **Spark, Kafka, RabbitMQ, FastAPI**
Storage : Hadoop**, HDFS, Elasticsearch**
Cloud Platform : **AWS**
Tools : **git, Helm Charts, Spinnaker, FluxCD, OPA**
Execution : **Docker and Kubernetes**
Machine Learning : **Pytorch**

ALGORITHMS

Classical Machine Learning : **Regression (Logistic and Linear), Random Forest, GBT, SVM, Naive-Bayes classifier, KNN, K-means, DBSCAN, PCA, t-SNE, MAB**
Deep Learning : **MLP, CNN, LSTM, Attention Models, Autoencoders**