MILIND BASAVARAJA

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Graduate Student at New York University, M.S. Computer Science.　　　　Sept 2022 - May 2024
Courses: Operating System, Cloud Computing, Database System

Visvesvaraya Technological University, B.E. Computer Science And Engineering　　Aug 2014 - June 2018
Course curriculum **:** Data Structures and Algorithms, Computer Organization, C++, C,
Java, Web Development, Object Oriented Programming, Operating Systems, Computer Networks

SKILLS

Programming Languages	Java, Python, Scala,C, C++
Web Development	HTML,CSS, JavaScript
Database	MySQL, CockroachDB
OtherTools & Tech	Apache Kafka, Hadoop, Spark, Kubernetes, Git, Jenkins, JIRA, Microsoft Office, Maven
Cloud	AWS APIGateway, AWS Lambda, AWS SQS, AWS SES, AWS Open Search, DynamoDb
Framework	Spring Boot, Nodejs

PROFESSIONAL EXPERIENCE

JP Morgan Chase, Bengaluru, India.　　　　**Associate Software Engineer**　　　Jan 2021-July 2022

Apache NiFi Flow Development Life Cycle
- Developed backend application using Spring Boot to enable versioning of DataFlows created in Apache NIFI, easing out the deployment, promotion and rollback of DataFlows to higher environments.
- Exposed REST APIs to integrate this backend service with FrontEnd.
- Used Spring Data JPA as data access layer which facilitated retrieval of metadata of DataFlows stored in cockroachDB.
- Automated deployment of application to company's private cloud improving deployment time and no manual intervention.

Low Latency Architecture
- Developed Dataflows to facilitate rapid data enrichments for small volume of data in scope, using Apache NIFI reducing the time taken for enrichment by almost 73% compared to legacy architecture using Spark for small volume of data.
- Used Apache Ignite as in-memory cache and Amazon S3 as datastore for reading data to be enriched.
- Developed complex custom processors using Java Spring Boot allowing us to perform additional and custom transformations during enrichment.
- Worked on hosting Apache NIFI on Kubernetes Platform hosted on company's private cloud.

JP Morgan Chase, Bengaluru, India.　　　　**Software Engineer**　　　Jul 2018 – Jan 2021

Streaming Distribution
- Created streaming service using Spring Boot, Apache Kafka and Spark to stream transformed data to clients after data enrichments completed successfully.
- Exposed REST APIs to manually trigger streaming of data for a particular Business Date and other REST APIs to retrieve metadata of individual streaming process
- Enabled Fine Grained Entitlements (Row & Column level) which improved the security of the data .

Indian Space Research Organization, Bengaluru,India　　**Intern**　　　Jan 2018 - Apr 2018

Early Fault Detection of Satellite Sensors
- Developed neural network based residual generator for early fault detection in Dynamically Tuned Gyroscope sensors (DTG) of satellite.
- Used MLPRegressor, Multilayer Perceptron and Recurrent Neural Network models for training and testing.
- Used python to clean and analyse data, tkinter interface for GUI and seaborn for visualising data trends.
- Project Was rated excellent by ISRO as we were able to achieve 97% accuracy.

PROJECTS

Dining Concierge
- Serverless, micro-service driven web application, specifically built a Dining Concierge chatbot using AWS Lex, AWS Lambda, APIGateway, AWS Open Search, DynamoDB that sends restaurant suggestions given a set of preferences that you provide the chatbot with through conversation.

Attendance Mapper (*Undergrad Mini Project***)**
- OpenCV python project which uses face recognition to mark the attendance of the students. Datasets of the students will be given as input, the tool recognises faces and maps the attendance and also plots the attendance using matplotlib.

ACCOMPLISHMENTS

- Completed **Udacity's Nanodegree course** in **Machine Learning with PyTorch**