

# NIHAR GHARAT

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## Education

### University of Texas at Arlington

MS in Computer Science, 3.833 GPA

Graduate Teaching Assistant, Data Mining(Dr. Elizabeth Diaz)

Jan 2022 - Dec 2023 (expected)

### University of Mumbai

B. E in Electronics and Telecom, 7.25 CGPA

Sep 2013 - May 2017

## Experience

### SDE Summer Intern, FedEx, Plano, Texas

May 2023 - Aug 2023

- Part of the printAndGo product team, responsible for **modernizing** legacy application.
- Deep dived into understanding performance bottlenecks by reading **RFC standards**(eg- multipart form data, UUID), going over pre-existing documentation, **memory usage**; highlighted performance critical bottlenecks, and possible improvements.
- Hands-on experience in working with SpringBoot, **JMS(Tibco)** for Messaging, **Jenkins** for CICD, **Insomnia** for api testing, **JUnit** for testing, **jVisualVM** for profiling.
- Actively involved in planning activities, task allocation, and actual development.

### Senior Product Engineer, Lnt Infotech, Pune, India

Apr 2018 - Aug, 2021

- Designed and developed **REST APIs**(consuming/creating) on Java for services like connector and scanner service; developed **data parsers(connectors)** for various sources like **RDBMS** systems (**Postgres, MySql, Hive, SqlServer, Snowflake, etc.**); **file** formats like **xlsx**, delimited, **sas7bdat**, **json**, **xml**; **NoSql** like **mongoDb**; and **crm** platforms like **Salesforce**.
- Worked on **cloud connectors** like **Azure Blob**, **Amazon S3**, **GCP**; with a major focus on **Azure Blob**.
- Improved performance of **Xlsx** data parser by **~50%**, by identifying bottlenecks in **Apache Poi** implementation. Designed, implemented, and **maintained** new features like **range read**, **streaming read**, etc. for **xlsx** connector.
- Developed **bash scripts on Linux** for doing **automated performance benchmarking** for various connectors for **Spark** on **K8S**.
- Designed and developed functionality like **upsert** for **RDBMS** via **spark**, **mongoDb** authentication.
- Researched the feasibility of a connector for **Google Drive**. Developed a **POC** to demo the integrated functionality.
- Worked on **other technologies** like **Docker**, **Kubernetes**, **Azure Blob**, **Amazon S3**, **Sftp**, **Spring boot**, **CI/CD**, **Snowflake**, **SonarQube**, **ElasticSearch**. Strong experience in **Linux**, with **Ubuntu** as the choice of development OS.
- Contributed to maintenance and enhancement of **Spark** cluster processing for about 15 connectors.

## Personal Projects

### Google apartment review scraper using Selenium ([Github link](#))

Developed a **python** project for scrapping google reviews for apartments to judge which review is genuine/fake(WIP). The project used **selenium** for scraping.

### YouTube playlist backup (private)

Designed and implemented a project to periodically backup youtube playlists to circumvent loss(song names only) due to copyright strikes. The project is written in **Java8**, performs multithreaded http requests, parses the html response, and stores the necessary data pulled in **xlsx** format. **Cronned**(anacron) and **dockerized** the project to run periodically(every Wednesday).

### Gym Workout Recommender ([Github link](#))

Designed and implemented academic capstone project which will recommend a workout based on users previous history of workouts, profile, preferences, etc. Under Machine Learning course, written in **python3**, feature engineering in **pandas**, neural network on **Keras**.

### The Portfolio ([Github link](#))

Designed and implemented a portfolio from **scratch**, right from designing page layouts to implementing them. Integrated **Google Analytics** for traffic analytics. Used **NextJS(React)**, **TailwindCSS**, deployed on **Vercel**.

## Skills

Java, Python, C, Spark, Javascript, NextJS(React), TailwindCSS(CSS), Pandas, Jupyter Notebook, MySql, Snowflake, PostgreSQL, MongoDB, Azure Blob, Amazon S3, Sftp, Ubuntu(Linux Superuser), Bash(Scripting), Keras, Tensorflow, Spring boot, SonarQube, Jenkins, Git, Github, Gitlab, Docker, Kubernetes, VsCode, Eclipse, Idea IntelliJ, PyCharm, Sublime3