

# Adit Shah

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## Education

### **Master of Science in Computer Science**

University of Texas at Dallas, Richardson, TX

**May 2023**

### **Bachelor of Technology in Information Technology**

Indus University, Ahmedabad, India

**May 2020**

## Skills

Languages: Java, Python, HTML, CSS, JavaScript, TypeScript, SQL, NoSQL

Frameworks & Libraries: React, Redux, Vue, JQuery, Node.js, Jest, Express, REST, tensorflow, keras, sklearn, Vertx, Kafka

Databases: PostgreSQL, MongoDB, Redis, ElasticSearch

Version control: Git, GitHub, GitLab

## Work Experience

### **Research Assistant**, University of Texas Dallas, Richardson, TX

**Aug 2022 - Dec 2022**

- Developed and scaled a complex data extractor tool which scrapes 1k+ different pdf data sets using regular expressions.
- Inherited and tweaked the data extractor code to build a web scraper that extracts 5k+ web pages in a timely manner avoiding DDoS. Built on top of Java with jsoup, apache pdfbox and gson libraries.

### **Summer Analyst**, Goldman Sachs, Dallas, TX

**Jun 2022 - Aug 2022**

- Added functionality to Marquee's Asset Screener to be able to filter stocks or bonds by ESG (Environmental, Social, Governance) data to allow users to easily create ESG focused investments on the Marquee Web Platform.
- Enhanced E2E validations during Equity Baskets creation on the Marquee Web platform which now ensures appropriate client tags are used, thereby fixing the potential entitlement issues and reducing manual support required.
- Leveraged ElasticSearch for the DB, Python for the configuration and daily data update job, Java (Vertx) to add validations and enhance the REST API, and React/Redux/TypeScript for the UI.

### **Software Engineer**, Senpiper Technologies, Gurugram, India

**Jun 2020 - Aug 2021**

- Developed an in-house web notification mechanism with the help of Service Worker and Web Socket, which served more than 150,000 users in real-time.
- Incorporated best development practices, collaborated with a group of engineers to re-architect the front-end code with React, which improved the app performance by 50%.
- Independently built a custom form builder module with a fluid drag and drop user interface which helped increase the company's revenue by 10%.
- Participated in code review with a team of 6 engineers and wrote automated test cases for all the new features, boosting the app efficiency by 70%.

## Projects

### **Live Tweet Polarizer**

- Built a python program to stream live tweets based on some search term and publish the tweet sentiment to Apache Kafka topic.
- Incorporated the use of Logstash to consume the streaming data from Kafka producer and push it to the ElasticSearch cloud index and visualize the changing sentiments using Kibana dashboard.

### **Movie recommendation system**

- Used the Netflix prize money dataset to perform user-user collaborative filtering and predict the ratings of unrated movies.
- Taking into account, the cosine similarity matrix and k-nearest neighbors, sorted the predicted ratings and movies with 0.9 RMSE value. Built using Python.

### **Hashync: Password manager app**

- Developed a custom hashing mechanism that uses a secret phrase for saving and retrieving all your passwords.
- Coded an encryption technique on top of Blowfish & PBKDF2 algorithms which ensures that the original password never leaves the device. Used React Native, Node.js, MongoDB.

### **Dineat: Voice assisted restaurant reservation system**

- Provided voice assistance within the browser for table reservation form fill-up and for searching the restaurants based on several tags like cuisine, name, location, etc.
- Developed an automated QR check-in system to reduce human contact while verifying the table booking at the restaurant.