ADIT SHAH

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Education

Master of Science in Computer Science   **May 2023**
University of Texas at Dallas, Richardson, TX

Bachelor of Technology in Information Technology   **May 2020**
Indus University, Ahmedabad, India

Skills

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

Frameworks & Libraries: React, Redux, Vue, Node.js, Jest, Express, REST, Pandas, Numpy, Matplotlib, sklearn, Vertx

Databases: PostgreSQL, MongoDB, Redis, ElasticSearch

Version control: Git, GitHub, GitLab

Work Experience

Research Assistant, University of Texas Dallas, Richardson, TX   **Aug 2022 - Present**

- Researching around **scaling** a complex **data extractor** tool which **scrapes 1k+** different data sets using **regular expressions**.
- Currently supports **2k+ data points** with more **patterns** being added regularly.
- Using Java and Regex for **scraping** the data from **different** pdfs.

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

Hashync: Password manager app   <u>Visit</u>

- Developed a custom hashing mechanism that uses a **secret phrase** for saving and retrieving all your passwords.
- Built encryption 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   <u>Visit</u>

- 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. Used Vue.js, Node.js, PostgreSQL.

Spam email classification app   <u>Visit</u>

- Incorporated **Multinomial Naive Bayes** algorithm to **classify** spam and ham emails with 96.4% accuracy.
- Developed and deployed a custom **ML model** on Heroku cloud using Python, sklearn, streamlit.

Movie recommendation system

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