Jainam Shah

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TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, Typescript, HTML5, CSS3, JQuery

Software Development: Django Rest Framework, NodeJS, REST APIs, Angular, JDBC, Maven, React, Redux, Spring Boot, Spring MVC, Express, Hadoop, Spark, Coral APIs, AWS Cloud

Tools/ Frameworks: Git, Gitlab, Docker, Kubernetes, Kafka, JIRA, JUnit, Power BI, Tableau, Mockito, Selenium, Continuous Integration Jenkins, Confluence

Databases: SQL (MySQL), NoSQL (MongoDB, PostgreSQL, CouchDB, Cassandra), Graph Database(Neo4j)

Relevant Coursework: Operating System, Computer Networks, Object Oriented Programming, Machine Learning, Natural Language Processing, Data Structures and Algorithms

EDUCATION

University of Ottawa — **Ottawa, Canada**
Master of Computer Science Concentration In Applied AI — *Sept 2022 – April 2024 (Expected)*

Dharmsinh Desai University (DDU) — **Nadiad, India**
*Bachelor of Technology in Computer Engineering with **9.38/10.00 CPI*** — *June 2018 – August 2022*

TECHNICAL EXPERIENCE

Data Scientist — **Ottawa, Canada**
National Research Council Canada — *Sept 2023 – Dec 2023*

- Integration of visualization libraries with an Interactive Mapping Tool via backend APIs.
- Migrating data from file storage to Maria DB using data pipelines.

Software Engineer — **Ottawa, Canada**
Department Of Family Medicine (uOttawa) — *May 2023 – Aug 2023*

- Development Of Backend APIs, connected to an Azure Cloud Database with Azure MSSQL. Deployed an AI system which uses Natural Language Processing to check 2-3 words answers to the questions.
- Utilized Data Augmentation technique to enrich the training dataset that enhanced model's generalization capabilities.
- Implemented a Siamese neural network for text similarity assessment, demonstrating proficiency in deep learning architectures.

Software Developer — **Ahmedabad, India**
Indian Space Research Organization (SAC) — *December 2021 – March 2022*

- Data acquisition using the cdsapi library, extracting 36 years of ERA5 satellite data. Deployed an anomaly detection model using neural networks for detecting anomalies in the dataset.
- Spatial analysis with KMeans clustering to identify meaningful patterns and groupings, gaining insights into the spatio-temporal variability and evaluated using a silhouette coefficient.
- Created an analytics dashboard using matplotlib and scikit-learn libraries which provided valuable insights into the spatial and temporal data.

Software Developer — **Bengaluru, India**
Sakhatech Information Systems Pvt. Ltd. — *May 2021 – July 2021*

- Coordinated with a team of 6 in agile cycles to implement blockchain-based modules. Gathered requirements from the client and presented system designs to the project manager.
- Implemented modules in Javascript to modify Hyperledger Fabric - IBM open source blockchain solution to facilitate the client's requirements.
- Migrated existing MongoDB database to CouchDB. Additionally, programmed different data structures for assets, contracts, and blockchain ledgers.

PROJECTS

Virtual Existence For Local Stores 🔗 | *Python, React-Redux, Django Rest*

- Spearheaded a group of 3 to design an end-to-end application along with a recommendation system for local stores to attain virtual existence to enter the online world.
- Built frontend APIs using React-Redux framework, and backend restful APIs using Django.

E-Learning Platform 🔗 | *Python Django, PostgreSQL*

- Designed and developed an e-learning platform using Django and PostgreSQL, featuring user authentication, content management, and interactive learning elements.
- Ensured scalability and performance optimization, resulting in a responsive, reliable platform accessible on various devices.