KIRTI DESAI

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EDUCATION

Master of Science in Computer Science, **University of Florida**, FL   Apr 2021
(Relevant Coursework: Analysis of Algorithms, Advance Data Structure, Distributed Systems)   GPA: 4.00

Bachelor of Engineering in Electronics and Computer**, Jai Narain Vyas University,** India   Apr 2017
(Relevant Coursework: Design of Databases, Data-Structures and Algorithms, Computer Networks)

TECHNICAL SKILLS

- Programming Languages: Python, C++, C, Elixir, R, Julia, SQL, NoSQL, PL/SQL, Java, Git, SVN
- Web development: NodeJS, Django. ReactJS, REST, HTML5, CSS, PHP, JavaScript, Bootstrap, Angular
- Databases: OracleDB, PostgreSQL, MongoDB
- Tools: BERT, Kafka, Elasticsearch, Docker, Heroku, JIRA, Selenium, Jenkins, AWS, Agile Dev (Scrum)

EXPERIENCE

Assistant System Engineer, Tata Consultancy Services, India   Oct 2017 - Jun 2019
- Enhanced the investment and retail banking reconciliation process by fixing critical production issues.
- Designed and developed ETL workflows, stored procedures and triggers while pre-processing the data extracted from various data sources like Oracle, SQL Server, Teradata, DB2 and Flat Files.
- Developed various mappings to perform various transformation and filters like Source Qualifier, Aggregator, Router, Joiner, Rank and Sequence Generator transform using Informatica Power Center
- "Kudos Award" for developing a ticketing tool to auto-assign tickets which improved efficiency and ownership
- Introduced automation to reduce the manual work of support executives by 20% as a maintenance owner
- Handled change management, space management, and performed disaster recovery activities
- Awarded "Best Team" for on-time critical client deliveries within SLA like client money, stock hub
- Technology Used: Python, C++, PL/SQL, SQL, Perl, Unix

Summer Intern, Indian Space Research Organisation, India   May 2016 - Jul 2016
- Developed a web-application using Django to demonstrate applications of cloud computing
- Gained a deep understanding of remote sensing, digital image processing, GIS, and GPS technologies
- Explored data mining models, and pattern recognition techniques to predict weather and vegetation changes

PROJECTS

Chat-Bot with Intent Classification (Technology: MEAN Stack, Flask, Python, BERT)   March 2020
- Developed a real time chat-bot with personal and group chat functionalities using NodeJS and ExpressJS
- Embedded a room with a neural-net model to perform intent classification and slot filling on user queries.
- Studied in-depth different Attention models and employed BERT to achieve accuracy of 97.4% on ATIS test set.

Neural Machine Translation (Technology: Python, PyTorch, Bi-LSTM)   Feb 2020
- Developed a deep-learning system for language translation between English and Hindi with SeqtoSeq base model
- Constructively improved the model with Bi-directional LSTM with Attention while analysing available literature

Twitter Clone Simulator (Technology: Elixir, Phoenix, JavaScript, PostgreSQL)   Dec 2019
- Created a Twitter Clone web interface using Phoenix Framework which consists of thousands of clients and a server with all client-server communications implemented through Web-Socket functionalities
- Implemented Publish-Subscriber architecture with functionalities to send tweets, re-tweets, add followers, subscribe to tweets, search tweets with specific hashtags and mentions, and group-chat

Construction App using Red-Black Trees (Technology: C++)   Nov 2019
- Developed an application for an enterprise to keep track of all buildings under construction and dynamically switching buildings based on priorities to work upon with the implementation of Red-Black Trees and Min-Heap

LEADERSHIP & INVOLVEMENTS

- **Volunteer at Career-Fair, UFL:** Helped delegates of different companies and facilitated interaction process
- **Team Leader, ESPECTRO** (Annual cultural festival)**:** Managed a team of more than 40 people in the field of marketing and doubled the number of festival attendees in comparison to the previous year
- **Entrepreneurship Development Cell:** Coordinated and conducted talk shows to boost entrepreneurship culture
- Won SGFI (School Games Federation of India) state-level basketball championship among 28 teams