

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, Machine Learning) 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, Object Oriented Programming)

TECHNICAL SKILLS

- Programming Languages: Python, C++, C, Elixir, R, Django, SQL, NoSQL, PL/SQL, Java, Git
- Web development: HTML5, CSS, PHP, JavaScript, Bootstrap, JSON, NodeJS, React
- Databases: OracleDB, PostgreSQL, MongoDB
- Tools: BERT, Anaconda, Jupyter, RStudio, Android Studio, AWS, Kafka, Agile Development (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.
 - Introduced automation to reduce the manual work of support executives by 20% as a maintenance owner
 - Data curation using ETL and integration techniques for pre-processing of 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
 - 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
 - “Kudos Award” for consistent high performance for developing an MVC application in agile environment
 - 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

- Neural Machine Translation** (Technology Used: 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 Used: Elixir, Phoenix, JavaScript, PostgreSQL) Nov 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
- Intent Classification using BERT** (Technology Used: Python, BERT, ATIS) Feb 2020
- Developed a neural-net model to build a system to perform “intent classification and slot filling” on ATIS dataset.
 - Studied in-depth different Attention models and employed BERT to achieve accuracy score of 97.4% on test set.
- Construction App using Red-Black Trees** (Technology Used: 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