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EDUCATION

Rochester Institute of Technology

Master of Science, Computer Science

Rochester, NY

Aug 2018 - Dec 2020 (expected)

Coursework: Data Structures & Algorithms Analysis, Advanced OOPS, Computational Problem Solving, Big Data & Visual Analytics, Cryptography & Data Security, R-DBMS, AI, Software Defined Networking

Dharmsinh Desai University

Bachelor of Technology in Computer Engineering

Nadiad, Gujarat, India

August 2014 - May 2018

Coursework: Operating Systems, Data Structures, Computer Networks, Software Engineering, Image Processing, Data Mining, UNIX Scripting and Tools, Service Oriented Architecture

KEY SKILLS

- **Languages:** Python, Java(Core/J2EE), C, R.
- **Database:** MySQL, PostgreSQL
- **Web Technologies :** HTML/CSS JavaScript/jQuery, Bootstrap, JSON, REST-API, Node.JS, PHP
- **Other Tools/Frameworks:** Flask, AWS S3, Git, Tableau, Mininet, TensorFlow, Scikit-learn, Jupyter, Pandas

EXPERIENCE

Amazon

Software Development Engineering Intern

Seattle, WA

May 2019 - Aug 2019

- Analyzed customer utterances on to extract phonetically similar words that may be misinterpreted by Alexa. Used a combination of Levenshtien distance and phonetic algorithms (Soundex, Metaphone-3) to pinpoint the words. Analyzed utterances were to be provided to the voice modeling team for improvements.
- Designed and implemented an end-to-end mechanism that automates the existing manual and technical approach for adding items to Alexa's database per locale. Infrastructure consisted of Flask, AWS S3 and REST API. Saved valuable time of data associates and development.

Bhaskaracharya Institute of Space and Geoinformatics

Research and Development Intern

Gandhinagar, Gujarat, India

Dec 2017 - Apr 2018

- Implemented a web-based solution streamlining the operation of GeoServer right from workspace creation to shapefile rendering. Integrated custom REST API with underlying Geoserver API with a Java backend. Lead to noticeable reduction in the development times of BISAG scientists.
- Rendered shapefiles as full-fledged maps on Geoserver with added distance measuring and label marking capabilities. Shapefiles loaded in PostgreSQL 10.

PROJECTS

Amazon Review Analysis

April 2020

Python, Tableau

- Mined Amazon customer reviews for detecting trends and generating insights. Employed Birch clustering to group book reviews and SVM for classifying helpful reviews with 70% accuracy. Used Tableau for visualizing trends and underlying patterns.

Net2TextQuery

December 2019

Python, Flask, MySQL,HTML/CSS

- A web-based application facilitating query-based network traffic analysis. Inspiration drawn from [Net2Text](#).

Custom SDN Controller

November 2019

Python, Mininet, OpenFlow, Oracle VM

- Designed and implemented a from-the-scratch Software Defined Networking (SDN) Controller in Python mimicking (minimal) functionalities of Ryu, OpenFloodLight. Deployed the network via Mininet and Oracle VM via the OpenFlow protocol.

Subreddit Classifier

January 2019

Python, Scikit-learn, TensorFlow

- Performed comparative analysis of various classifiers such as Naive Bayes, Random Forest, SVM by classifying reddit posts.

Data Structures and Algorithms Visualization

April 2017

JavaScript, SVG.js, jQuery, HTML/CSS

- A GUI based interactive tool to learn popular data structures and algorithms commonly asked in interviews. Deployed [live](#).