Vaibhav Joshi

(585)309-1539 | Boston, MA | vaibhav.joshi231@gmail.com | vaibhavjoshi.me | github.com/joshivaibhav | linkedin.com/in/joshiv

EDUCATION

Rochester Institute of Technology - Rochester, NY   Aug 2018 – Dec 2020
Master's in Computer Science
Coursework: Advanced Data Structures, Algorithms Analysis, AI/ML, Big Data Analytics, Computer
Networks, Advanced OOPS, Cryptography, Data Security, Visual Analytics, DBMS.

Dharmsinh Desai University - Nadiad, Gujarat, India
Bachelor's in Computer Engineering   Aug 2014 – May 2018

WORK EXPERIENCE / INTERNSHIPS

Amazon - *Seattle, WA*   Summer 2019
Software Development Engineer Intern
- Generated key performance metrics to analyze Alexa's misidentification rate for phonetically similar words.
- Employed a combination of Levenshtien distance and phonetic algorithms (Soundex, Metaphone-3) to pinpoint the words.
- Metrics used to aid program managers, voice modelers in analyzing Alexa's performance.
- Devised an end-to-end, locale-based mechanism that automated and streamlined the existing manual and tedious approach for updating Alexa's product catalog.
- Consumed a Flask-backend on an EC2 instance with S3, REST API & JavaScript with a minimal and clean GUI.
- Lead to an increase in the productivity in the day-to-day operations of data associates

Bhaskaracharya Institute of Space and Geoinformatics – *Gandhinagar, GJ, India.*   Dec 2017 – Apr 2018
Research and Development Intern
- Implemented a web-based solution automating the GeoServer functionalities right from workspace creation to shapefile rendering.
- Integrated a custom REST API with underlying GeoServer API with a Java backend. Accelerated the productivity of BISAG scientists by ~30%.
- Rendered shapefiles as full-fledged maps on GeoServer with added distance measuring and label marking capabilities.

PROJECTS

Feature Exploration for Compelling Talks (Graph CNN, LSTM, OpenPose)   Aug 2020
- Generated pose-estimated spatial data for a Ted Talk speaker via OpenPose and used Attention-based LSTM, Graph CNN and Random Forest to determine the relationship between human poses/gestures and the popularity of the video.

Amazon Review Analysis (Python, Scikit Learn, Tableau)   Apr 2020
- Employed Birch clustering to group book reviews and SVM for classifying helpful reviews with ~70% accuracy. Magnified underlying data patterns and trends via Tableau visualizations.

Net2TextQuery (Flask, HTML/CSS, MySQL)   Dec 2019
- A web-based application facilitating query-based network traffic analysis. Inspiration drawn from Net2Text.

Custom SDN Controller (Python, OpenFlow, Mininet)   Sept 2019
- A custom 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.

Data Structures and Algorithm Visualization (JavaScript, jQuery, SVG.js, HTML/CSS)   Apr 2017
- An interactive tool with a clean GUI aimed at learning popular data structures/algorithms asked in tech interviews. Deployed live – just2test.in/jay/algo/.

SKILLS

Languages: Python, Java, C, R, MATLAB
Web Technologies & Databases: HTML/CSS, JavaScript/jQuery, Bootstrap, JSON, REST-API, PHP, PostgreSQL, MySQL
Software Development: Git, CI/CD, Agile Methodology, Confluence, JIRA.
Other / Miscellaneous: Flask, AWS (S3, EC2, RDS), Tableau, TensorFlow, Keras, Numpy, Pandas