DARSHAK DEEPAN RAIRAKHIA

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SUMMARY

Analytical and Motivated Software Engineer professional with academic and technical expertise in Web Development, Data Mining, Operating Systems, and Machine Learning. Seeking full-time opportunities as a software engineer or a full-stack developer.

WORK EXPERIENCE

Software Engineer, University of Texas at Arlington

June 2020 - Present

- Created a Software testing tool to generate Single Fault Failures for logical expressions using Java.
- Responsible for adding CRUD functionalities to a Web application which provides service of education for virtual education.
- Developed, maintained, and enhanced code using best practices in software engineering.
- The tech stack used to build this application is Php and Laravel with a SQL database and React for front-end.

Research Assistant, KJSCE

July 2017 - June 2018

- Responsible for developing a software for an embedded system using Arduino as a development environment.
- Enhanced programming and object-oriented skills in C++ and in Computer networks including TCP/IP and HTTP protocols.
- Implemented region-based image segmentation to help collaborate with object detection using Python.

Web Developer, Nelco Ltd.

April 2015 - July 2015

- Designed a Web Interface to get the subscription data from the clients of the VSAT technology team.
- Frontend was developed using JavaScript while backend was implemented using Php with a MySQL database.
- Implemented python script to send thousands of emails to the clients that are subscribed to receive VSAT services.

ACADEMIC PROJECTS https://github.com/Darshak1997

Todoist Clone using React https://github.com/Darshak1997/Todoist-Clone

October 2020

- Created the popular Todoist application from scratch using React (Custom Hooks, Context) and SCSS for styling.
- Worked with Firebase to store the data and testing was achieved using React testing Library (Unit and Integration testing).

URL Shortener https://github.com/Darshak1997/url-shortener

September 2020

- Given any URL, this system shortens and returns a globally unique alias of that URL back to the user.
- Used Node.js for backend, React.js for frontend, MongoDB to store the URLs, and Redis to cache the shortened URLs.
- Using LRU caching policy, this system can save a lot of read operations to the database making the system faster.

Campgrounds Website https://github.com/Darshak1997/WebDevelopment

June 2020

- Built a full-stack application called Yelp Camp. The technologies used are HTML/CSS, JavaScript and Node.js.
- All the campgrounds and comments on a post has CRUD operations with access control.
- Routing is achieved using **RESTful** APIs and the database used for storing is **MongoDB**. Used Passport.js for authentication.

Chat Application https://github.com/Darshak1997/Chat-Application

March 2020

- Exploring Multi-Threading and socket module by creating a chat application with a single server and 7 clients using Python.
 Clients can either unicast the message, multicast it, or broadcast the message by posting messages on the tkinter GUI.
- Movie Search Engine https://movie-mining-engine.herokuapp.com/

November 2019

- Built a full-stack application that used **Python** for backend, **JavaScript** for frontend and **Flask** for communication.
 - Phase 1 involves text-search that searches for movies using the tf-idf algorithm to rank top 10 movies to a given user query.
 - Phase 2 contains Genre Classification of the movie with respect to a user query. Page load time of an average of 3 seconds.

EDUCATION

• University of Texas at Arlington, Arlington, Texas

May 2020

MS in Computer Science and Engineering

GPA: 3.5

Coursework: Software Testing, Machine Learning, Distributed Systems, Analysis of Algorithms, and Web Data Management.

Mumbai University, Mumbai, India
 Bachelor of Technology in Electronics Engineering

June 2018

SKILL SET

Languages/Systems: Python, C/C++, Java, JavaScript, C#(.Net), Shell Scripting, MySQL, Apache Kafka.

Web Technologies: HTML5/CSS3, PHP, Laravel, Node.js, ExpressJS, jQuery, RESTful, React, ASP.NET Core.

Data Science: NumPy, Pandas, Matplotlib, Scikit Learn, TensorFlow, NLTK.

Databases: SQL, MongoDB, Redis, Firebase

Tools: Jupyter Notebook, Spyder, Eclipse (Junit, JaCoCo), Atom, PyCharm, Visual Studio Code.

Platforms: Ubuntu, Windows, Arduino, Rasberry Pi.

ACTIVITIES

• Participated in Hackathon and built a movie recommendation website where our team was placed among the top 5 teams.