HARSHINI GADIGE
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EDUCATION

Southern Illinois University
MS in Computer Science 2018-2020| GPA : 4.0
Courses: Agents and Multi-agents, Artificial Intelligence, Web Application Development.

JNTU University, India B.Tech in Computer Science GPA : 4.0
(College Topper and stood as Gold Medalist)
Thesis – Cross Domain Sentiment Classification Using Sentiment Sensitive Embeddings
Courses: Advanced Data Structures, Distributed Systems, Compiler Design

PUBLICATIONS

- **Password Handling Using Database in International Journal.**

LEADERSHIP

Organizer

- international conferences FICTA, INDIA.

Team Leader

- AIESEC OGCDP
  (Largest youth-run Non-Profit)

KEY TECHNICAL SKILLS

Web Technologies:
HTML/HTML5, CSS/CSS3, JavaScript, AngularJS, Angular2,6,8, ReactJS, jQuery, Bootstrap3, java, spring boot, microservices, Hibernate, Node, AJAX, XML, JSON, JSX, TypeScript
IDE:
Visual Studio, Brackets, Sublime, Web Storm, Notepad++
Debugging & Testing Tools:
IE developer Toolbar, Chrome web inspectors, Karma, Jest, Protractor, Jasmine and Mocha
Database:
MongoDB, Firebase, MySQL, SQL Server, Oracle DB
Tools:
SVN, GIT, JIRA, Karma, Jest, TDD, Bitbucket
AWS Services:
VPC, EC2, S3, IAM, Lambda
Methodologies:
Scrum, Agile, Waterfall model
Project Build Tools:
Gulp, Grunt, WebPack

SUMMARY:

- Expertise in design and development of web and enterprise applications using **React**, **Redux**, **AngularJS, Angular 2, Angular 8, jQuery, JavaScript, Ajax, Bootstrap, HTML5, CSS3, SASS, Stylus, ES6,**), **SpringBoot** (Java v1.7)**.**
- Experience in using **Redux** to manage the application state and applying middleware such as **redux-promise, redux-thunk** and **redux-saga.** Really good understanding of **React javascript** framework and **react native.**
- Experience on **AWS** services like **lambda, S3** and **EC2**, experienced in developing the API using Lambda function.
- Implemented sophisticated **data visualizations** using **D3JS, Echarts and Highcharts**

EXPERIENCE:

Ambest Technologies **2016-2018**
Project: Cross Domain Sentiment Classification Using Sentiment Sensitive Embeddings
Description:

- Created a web based application to classify the patterns in the stored transaction data based on open-ended user queries.
- Designed and developed responsive modules based on Business Requirements using **HTML5**, **CSS3**, **Bootstrap, ReactJS**, **NodeJS**, **Express**, and **MongoDB**.
- Built out a component-based architecture using **ReactJS** and **Redux**.
- Worked on React JS **Virtual DOM** and React views, rendering using components which contains custom HTML directives in **JSX**.
- **Integrated D3.js to accomplish dynamic data visualization** for price monitoring module.
- Created **NodeJS** server-side for creating RESTful Web Services using **Express** and **Mongoose** to connect with **MongoDB**.
- Well-versed in handling **Unit Testing** of UI using **Jasmine, Karma** along with **Test-Driven Development (TDD)** methodology**.**
- Experienced in working with **Agile** based development environment and participating in **Scrum** sessions.
- Used **Jenkins** for **Continuous Integration and Deployment** (CI/CD), and **JIRA** for bug and issue tracking**.** Used **Git** to maintain application version control for the full development cycle.
- Used Machine learning for measuring the friend closeness and enemy dispersion.

Technologies Used: HTML5, CSS3, JS, Bootstrap, D3.js, React js, Redux

Southern Illinois University Carbondale
Graduate Assistant| Dr. Michael Barkdoll **2018 - 2019**

- Developed a **React** Project for the Computer Science department. Our project is lively being used by all the faculty in the whole department and been awarded the most innovative project by the chair of the department.

Project: SIU Ticketing System

Description: The objective of this project is to create a notification system that acts as a media between Professors and System Administrators.

- We found that in our department, there's no current system that keeps track of the inventories the professors use from the department.
- Our goal is to fill the gap by creating a website that lets the professors to raise a TICKET to administrators, let administrators handle the issue and close the TICKET after resolving it.
- We have efficiently converted the existing problem into a technical issue and resolved it.
- Implemented Graphical Representation of Tickets that are raised and addressed and Mail exchange implementation.

Technologies Used: ReactJSv16.7, Redux, XHTML, HTML5, CSS3, Node.js v.11.0, Express.js v.4.17, D3.js, Bootstrap 5.0, MongoDB v4, Git2.17, CLI, RESTful Web Services, JSON, Grunt, Gulp, Agile, Scrum, WebStorm, VS code, Dev tools, Jasmine, Karma, JIRA

Graduate Research Assistant **2019-2020**
Working for the Dean Prof. Andy Ju An Wang

- Working for a Realtime Project under the Dean
- We implemented a machine learning project with the dean of the college, the task was to build a chatbot that is especially for the students of SIU.
- The task is to build a Conversational bot, so that the bot uses the previous conversations to answer the questions raised by students.
- In this work, we present COQG- Contextual Question Generator, a deep neural sequence-to-sequence model for the task of generating factual question from an input paragraph that could be used in a conversational context. In a sense, COQG can be directly used as a personal assistant to assess students knowledge in a particular topic. Complementing COQG with any machine comprehension models an be used as full-fledged intelligent tutoring system, which can ask questions in much more natural way and find whether the answer given by user is correct or not. A system that complements COQG is presented as a separate work. We use the popular encoder decoder model, combined with an attention and a copy mechanism to generate questions. But the input to our model is not only the paragraph and the rationale, but also the previous question generated in the context.
- Developed a VTA(Virtual Teaching Assistant) chatbot which uses following Technologies:

Technologies Used:

Angular version 7(Frontend), Spring and JWT(Backend),
Google DialogFlow (ChatBot), GCP(Deployment)

Graduate Research Assistant | SIU Aviation | SIUC Carbondale, IL, USA **Jan 2019 – Dec 2019**
Client: Department of Aviation Management and Flights

Project: Flight Data Monitoring Program (FDM)

Description: Designed and developed a web-based application for the Flight Instructors at Department of Aviation and Flight at SIU as a part of Flight Data Monitoring Program. This application serves as an analysis tool to grade pilot trainer's performance based on visualization of flight data. Actively involved in writing a research paper on detection of hard landing and near miss instances in flights by analyzing the data recorded from flights.

Front-End:

• Elegant visualization of charts and maps using MVC Architecture in Angular 7 and Bootstrap 4 and development of Single Page Application.
• Used two-way data binding to enable live update of view upon updating the model.
• Consumed the API service by creating HTTP requests to initiate Client-Server Communication and implemented RxJS Observables and subscribers to provide data to all the components.
• Developed Angular components and carried out dependency injection of services to enable communication between components.

Back-End:

• Implemented REST based web services using ExpressJS and Node environment to enable Client-Server communication.
• Implemented JWT Authentication to generate unique AUTH Token for securing the Web API Endpoints.
• Gathered all the data and used python and pandas, a python library to preprocess all the data and convert them into data frame objects before moving them to database.

Database:

• Designed the database, Entity-Relationship Diagram and converted them to Schemas to setup the database.
• Developed advanced SQL queries involving joins and subqueries to fetch flight data.
• Maintained around 34 million records of flight data ranging for a period of 2 years.

Environment: VS Code, Python, pandas, Angular 7, RxJS BehaviorSubject, Google Cloud Platform and BigQuery, AmCharts and OpenLayers, Postman.

My Remaing Projects and my contributions can be checked out at:
https://github.com/HarshiniGadige