SAVANTH KUMAR BATTIKADI

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EDUCATION

Master of Science, Computer Science Aug 2017 - Dec 2020
University of Arkansas, Fayetteville, Arkansas, USA
Bachelor of Technology, Computer Science and Engineering July 2012 - June 2016
Jawaharlal Nehru Technological University, Telangana, INDIA

CERTIFICATIONS

Microsoft Certified Azure Fundamentals (AZ -900) - Certificate Number: H527-5138

WORK HISTORY

University of Arkansas, Fayetteville Oct 2017 - Dec 2020
Graduate Teaching Assistant for Database Management Systems

- Designed SQL, MySQL assignments for students which closely resemble real world database schemas(Insurance company database design, car rental company database design).
- Assisted over 130 students with assignments and oversaw their performance in the course.
- Participated in Weekly course progress and course improvement meetings with professors and colleagues.

Graduate Research Assistant for System Design Lab

- Contributed to the research team working on decoding the factors behind route planning decisions taken by airlines.
- Developed parallel program for forecasting algorithm called Newton Raphson Logistic Regression on GPU using CUDA.

Classroom Technology Assistant at **University IT Services**

- Configured and deployed Windows, Linux instances for labs. Gave Identify and Access Management roles to students.
- Responsible for planning IT infrastructure in classrooms and labs, timely updates for software and hardware in labs.
- On-call and physical IT assistance for instructors.

Defense Research and Development Organization, India May 2015 - June 2017
Co-Op & Full-Time Software Engineer

- Stress Testing using C-SMITH tool and unit testing using Junit framework.
- Fetched data from API's and built Angular Dashboards using the data.
- Designed and maintained end points
- Assisted with process improvements and participated in projects demos to clients.

CORE COMPETENCIES AND SKILLS

Programming Languages	Java, Python, C++, CUDA, JavaScript, TypeScript, HTML5, CSS3
DevOps	Jenkins, Git, Active Directory.
Database	SQL, MySQL, Hive, Cassandra.
Platforms	Ubuntu, CentOS, Windows, Mac.
Frameworks	Spring Boot, Angular
Cloud Tools	Azure Static Web Apps, EC2, IAM, Application Load Balancing, Scaling Groups.
Tools and testing	C-SMITH, JUnit.
Non-Technical	Multilingual, International Student, Photographer

PROJECTS AND ACADEMIC EXPERIENCE

RTF-IDF Search Engine [GitHub]

This project is developed using HTML/CSS, PHP, JFlex and Java. JFlex is used as a web scraper to tokenize input, Java is used for implementing ranking algorithms, PHP as the backend language and HTML/CSS as front end. The goal was to enhance efficiency in terms of response time. The ranking algorithm generates three Random Access Files dict, post and map using which we can randomly seek the query terms, accumulate ranks(tf-idf values) and display top 10 results to the user.

Understanding the intent of the Reviews and automating classification [GitHub] [Paper]

End goal of this project is to automate the prediction of reviews into two types good review or a bad review. Working with a large movie review dataset obtained from Twitter API, we developed a unique way purely based on intuition to convert reviews into feature vectors. We then plugged the vectors into different models, SVM being our baseline. We achieved an overall accuracy of 78%. Python is the language used and Kera's, Scikit are some of the libraries we used to compare with the baseline algorithm(SVM).

Spa-day Website [GitHub]

Designed a Spring Boot project using gradle, it allows users to sign up, sign in into the website. Once they are done with the login process, they are redirected to index page where they have option to enter name, their skin type, their choice of services. And based on inputs, the website suggests the types of packages available according to their skin type.

Orbit-Report Dashboard [GitHub]

Designed an Angular project which fetches the data of satellites in the Orbit from an API. Tabulated the data, built a search bar on top of the satellite name. When we click on individual column name, the table displays the records in the sorted order of that column name.

Predicting the Risk of Diabetes on patient based on health parameters[GitHub]

Developed SVM algorithm from scratch, the model takes various health parameters like age, body mass index, insulin level, skin thickness. Model trains the classifier using the tagged data and predicts the risk among new patients.

DEVOPS AND CLOUD PROJECTS

Continuous Integration using Jenkins

Deployed an EC-2 instance in AWS, installed and ran Jenkins on one of the ports. Opened up that port for public to integrate it with GitHub and configured Web Hooks, SCM polling. Ran an Angular project to check if the pull triggers are working.

Deployed Remote Machines in Azure for instructors

Using Azure Cloud, deployed Virtual Machines wherever and whenever required to enable seamless running of classes and labs.

Cloud Resume Challenge[GitHub]

Using a service called Static Webapps provided by Azure Cloud, I deployed my portfolio website by integrating the GitHub Repo with the service and truly leveraging the power of Serverless Computing.