SAI KALYAN YETURU

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EDUCATION

Masters in Computer Science, University of North Carolina at Charlotte, NC (***GPA:3.9***) ***Dec 2017***
Bachelors in Computer Engineering, VIT University, India (***GPA: 3.9***) ***May 2016***

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C#, PL/SQL, R
Web Development: HTML, CSS, PHP, JavaScript, typescript, jQuery, ReactJS, D3.js
Frameworks: Angular 2, Spring Boot, Hibernate(ORM), Node.js, Express.js, ASP.NET
Database: MySQL, Oracle 11g, Microsoft SQL Server MongoDB
Tools: AWS, MySQL Workbench, ECLIPSE, NetBeans, phpMyAdmin, R Studio, Weka, Tableau
Big Data Technologies: Hadoop, HDFS Architecture, Hadoop MapReduce, Apache Spark

PROFESSIONAL EXPERIENCE

Software Developer Intern, *HCL, Chennai, India* ***Aug 2015 - Dec 2015***

- Worked as a **Full-Stack Developer** to develop the Shipment management system to handle the shipping services.
- Developed REST API using **Spring Boot** and SQL server and frontend using HTML, CSS, **AngularJS**, Bootstrap.
- Collected the RESTful services through the AngularJS factory services through the front end.
- Wrote SQL queries, stored procedures, and triggers to perform improve the database operations.
- Communicating with the team and preparing documents related to the project for knowledge management.

Application Developer, *VIT University, Vellore, India* ***Jan 2016 - May 2016***

- Developed an algorithm for Traffic Detection System application for optimizing the traffic between the vehicles by analyzing the data obtained through inter-vehicular communication.
- Analyzed and Extracted Data obtained through vehicular communication and played a key role in the development of algorithm using MapReduce Framework and Java which determines the traffic congestion in a specific area.

ACADEMIC PROJECTS

Trip Planner: (Spring boot, Angular 2, HTML, CSS, Bootstrap, MySQL)

- Web Application which helps the users to retrieve climatic conditions, interesting places to visit, top hotels in the location and some additional features like travel reminders depending on the user's destination.
- Developed Back-end API using **Spring Boot** and used **Hibernate**(**ORM**) to perform CRUD operations.

Chat Application: (HTML, CSS, Bootstrap, Angular 2, Node.js, Express.js, MongoDB, Socket.io)

- Developed a Single Page Web Application using MEAN Stack where a user can chat with other online users.
- Front-end is developed using Angular 2 and Bootstrap. Server-side scripting was done using Node.js, Express.js and MongoDB is used as a database. Socket.io is used to update chat and online users in real time.

Clothing Closet Web Application: (HTML, CSS, JavaScript, PHP, MySQL)

- Developed a fully responsive and dynamic website to manage donation and purchase of clothes by users.
- Implemented SMTP with PHPMailer to mail the generated invoice and tax forms based on the user actions.

State Farm Distracted Driver Detection: (Python, OpenCV, Apache Spark, HDFS)

- Classification into 10 classes based on the features extracted by using the skin segmentation with **OpenCV**.
- Implemented KNN with Euclidean Distance and Neural Network with feed forward propagation using **Gradient descent algorithm** to train the images. Which obtained an overall accuracy of **58%** with 0.01 learning rate.

PERSONAL PROJECTS

E-market Web Application: (HTML, CSS, jQuery, Bootstrap, JSP, Servlets, MySQL)

- Developed an end-to-end full-fledged e-commerce web application with caching and cookie storing ability.
- AWS RDS (MySQL) instance is used as the database for the project and the application is hosted on Elastic Beanstalk instance. To improve the security password salting and hashing is implemented using java security API.

Image Classification of Caltech 101: (Python, Weka, R, Scikit-learn, OpenCV, Tableau)

- Greyscale, Foreground extraction, edge detections are used to extract important features using **OpenCV**.
- Implemented classifiers like SVM, KNN and Neural Networks. Feature selection and image augmentation are used which improved the performance of the models by **10%**.