

# Aravind Yalla

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**Location:** Arlington, TX

## WORK EXPERIENCE

### Tata Consultancy Services Ltd – Executive

Nov 2020 – August 2022

#### Project 1: React

- Developed oracle ERP Integrations cloud (OIC) for Automate end-to-end processes and partners to create new business models.
- Writing API to connect with the User's Backend
- Using JavaScript and ReactJS Design, Developing, and Implementing front-end architecture by Continuous improvement
- Implemented CRUD operations on the customers, departments, employees
- Maintained balance between back-end and front-end to achieve reusable code and perfect user interface
- Optimized web pages for maximum speed and scalability and maintained brand consistency throughout design

#### Project 2: Splunk

- Worked on Big data specifically the log data where I structure them using Splunk technology
- With DevOps methodology collaborated with multiple teams namely security, storage, and Iaas
- The Splunk Administrator will manage Indexes, a cluster of Indexers, and responsible for scaling platform deployments,
- Responsible for securing Splunk Enterprise, troubleshooting, and documenting

### Software Internship – OneYes Technologies

Mar 2018 – Aug 2018

- Created Basic web pages like Blogpost, to do list, calculator, weather apps used HTML, CSS, JavaScript for front end
- Used responsive web design and Built Dynamic UI Components and single page applications (SPA) using React.
- Used MySQL lite and python-based web frameworks flask and Django for login, signup, user addition, removal to the database.
- Developed different type of application forms with react, NodeJS and mongo db.

## EDUCATION

### Masters, Computer Science

Aug 2021 - Present

University of Texas at Arlington, Arlington – TX

**GPA: 4.0/4.0**

### Bachelors, Computer Science

Aug 2016 - May 2020

SRM University  SRM Institute of science and Technology, Chennai - India.

## SKILLS

<b>Programming Languages</b>	Python, C, C++
<b>Certifications</b>	Oracle ERP Technical- Certified
<b>Methodologies</b>	Object Oriented Programming, Multithreading
<b>Back-End Technologies</b>	My SQL, NodeJS, MongoDB, Laravel, PHP
<b>Front-End Technologies</b>	ReactJS, JSP, Java Servlets, HTML5, CSS, JavaScript
<b>Tools</b>	Splunk, AWS, Docker, GIT, Bitbucket, Postman, Vs-Code, Composer
<b>Relevant Courses</b>	Data Structures and Algorithms, Design Patterns, Database ArchitectManagement, Software Project Management, Software Modelling Development.

## PROJECTS

### Market place Website | Tech: React, HTML, CSS, Node, PHP, Laravel.

- Website development which consists of buying and selling of products, sharing ideas across universities.
- Used React to build the front-end web pages, implemented node for chat functionality and JS for validating the input data.
- Handled PHP and SQL for backend developed. Developed email functionality using Laravel.

### Examining and predicting helpfulness of reviews based on LSTM | Tech: LSTM, RNN, classification, TF-IDF, Backpropagation and NLP.

- Review helpfulness helps us to find the most helpful review out of a large set of reviews different consecutive steps
- such as analyzing, cleaning, processing, feature detection and finally through LSTM will find the most helpful one.
- TF\*IDF strategy to discover the heaviness of catchphrase and apportion the significance to that watchword
- Furtherly, a model determination is accomplished by two classes specifically, Probabilistic Measures and Resampling Methods.
- Finally, the key advance forecast of support is finished by the LSTM prepared to utilize the backpropagation that beats the angle issue

### Search Engine Optimization | Tech: Python, Data Structures, Multithreading.

- Analyzed time & space complexities of existing python code that searches through tweet data to match closest tweet to query.
- Processed tweet data by applying Inverted Index Data Structure on 10000 tweets forming term document incidence table.
- Optimized the query search by 87% using multithreading and searching for closest match in term document incidence table.
- Gave multiple insights about ranking and scoring tweets, using Tire Data Structure to perform search by prefix functionality.

### Prediction of employee churn rate | Tech: Python, SKlearn, K-means, pandas, Matplotlib.

- Employee churn is like customer churn. It mainly focuses on the employee rather than the customer.
- Employee churn is expensive and incremental improvement will give significant results which help in designing better retention plans.
- Serialization of data blocks in the buffer cache due to lack of free lists, transaction slots, or shortage of rollback segments for INSERT heavy applications, Oracle execution plan is used to reduce the running time of the program for integrations.
- Business strategies in general and HR policies and practices must be framed in such a way that they ensure retention of key performers

### Obstacle avoiding robot | Tech: Python, Data Structures, Multithreading.

- Many industries are using robots due to their high level of performance and reliability, and which is a great help for human beings.
- Robot will move in a particular direction in which Ultrasonic Sensors and IR sensor sense a signal while avoiding the obstacles in its path.
- Ultrasonic Sensor and IR Sensors are controlled by an Arduino Microcontroller, Us and IR are less in cost and high in ranging capabilities.
- They can Navigate Robot in Unknown Environment By avoiding collisions and it is also used for blind people which will help to stop accidents.