Aravind Vicinthangal Prathivaathi

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SUMMARY

- Graduate Student specializing in data management and machine learning. Knowledge in various software tools and languages.
- Recent professional experience includes working for a content delivery network provider to build web-application and REST APIs.
- Interests include software-engineering, data science, and machine learning. Available for full-time employment from June 2021.

EDUCATION

Rochester Institute of Technology, Rochester, NY
Master of Science, Computer Science, GPA: 3.72 *Expected May 2021*

Anna University, Chennai, India
Bachelor of Engineering, Electrical and Electronics Engineering, *May 2018*

SKILLS

Languages: Python 3.7, JavaScript (ES6+), HTML5, CSS3, SQL, Java 11
Frameworks/Libraries: React, Redux, Django, Node.js, Mongoose, JDBC, ant design native, material-ui, AWS Amplify, chart.js
Tools: pgadmin4, Studio 3T, AWS-EC2, AWS-lambda, AWS-DynamoDB, AWS-RDS, Git, AWS Cognito
Machine Learning/Data Science: Postgres, MongoDB, keras, open-cv, scikit-learn, pandas, numpy, Weka 3, PyTorch

PROFESSIONAL EXPERIENCE

Quantil Inc, Santa Clara, CA *August 2019 – May 2020*
Software Engineering Intern, Portal/API

- Part of a team that built **a content delivery portal** called **CDN360**, to help customers configure properties of hosted contents on over **1200 PoPs worldwide**
- Consistently **pushed new features to production** that were accessible to all CDN360 customers.
- Collaboratively **designed, implemented and tested RESTful APIs using Spring 5, postman and JavaScript.**
- **Tools**: react-js, redux, ant-design, java, RESTful APIs, ES6, chrome-devtools, webstorm, sql, node.js, enzyme

PERSONAL/ACADEMIC PROJECTS

Sentiment Analysis of Covid-19 *(github.com/VPAravind/Sentiment-Analaysis-Covid19)* *August 2020*

- A data pipeline with AWS Lambda and Elasticsearch to build a data sentiment analyzer
- Sentiments on Covid-19 using twitter data was analyzed with an accuracy of 78% using the VADER model.
- **Tools**: AWS Lambda, AWS kinesis, AWS Elasticsearch, python3, NLTK, scikit-learn, AWS S3, NLTK, VADER, Tweepy

Covid-19 Tracker *(github.com/VPAravind/Covid-Tracker)* *June 2020*

- **Built a covid-19 tracking** web **application using the disease.sh API** that **highlights the covid-19 hotspots** worldwide.
- Displays a graph that **visualizes the change in covid-19 cases worldwide** and **shows the status of covid-19 cases at each country**.
- **Tools:** react.js, react-leaflet, material-ui, chart.js

Color Detection CLI *(github.com/VPAravind/Image-Color-detector)* *May 2020*

- Developed a **color detection CLI** using OpenCV **with an accuracy of 95%.**
- Takes an image as input and identifies the color of the selected area in the image.
- **Tools:** Python3, OpenCV, pandas, numpy

Video Streaming Web App *(github.com/VPAravind/react-video-streaming-app)* *November 2019*

- Mock Web app like Twitch, **which allows users to live stream videos.**
- **Uses OAuth for authentication and allows streamers to perform CRUD operations** on their streams.
- **Tools**: react-js, redux, react-portal, node.js

IMDB Data Processing and Clustering *(github.com/VPAravind/K-means-Clustering)* *April 2019*

- Implemented a **full data analysis pipeline** that involved cleaning, processing, and modeled the **data into a Postgres RDS instance, applied 3NF decomposition** and query optimizations**, to reduce the time taken to query over 10 million records of data from 20 minutes to 30 seconds.**
- **Implemented k-means clustering from scratch**, on the movie genres and presented a visualization for the optimum k-value
- **Verified the results** using the k-means clustering algorithm **from scikit-learn library**.
- **Tools**: Postgres, MongoDB, python3, scikit-learn, Java, JDBC, AWS-RDS

AWARDS AND CERTIFICATIONS

- **Awarded 40% Merit Scholarship worth $25,000** for the Computer Science, Master of Science program