# Aravind Vicinthangal Prathivaathi

(571) 524-6813 • aravind.v.prathivaathi@gmail.com • vparavind.github.io/ • linkedin.com/in/vparavind/

## 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 **800 PoPs worldwide**
- Consistently **pushed new features to production** that were accessible to all CDN360 customers.
- Collaboratively designed RESTful APIs and performed regression testing on the front-end**.**
- **Improved Portal's search functionality by 20% by reducing the number of API requests during every search.**
- **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-Analysis-Covid-19)* *October 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

**Distributed Serverless Web Crawler** *(github.com/VPAravind/Serverless-Crawler)* *August 2020*

- Built a Proof of Concept (POC), **simple and cheap distributed web crawler** for focused crawling.
- The serverless web crawler was able to **mine approximately 9,000 records over 3 hours** at a rate of 1 record insert/second.
- **Tools**: AWS Lambda, AWS MySQL RDS, AWS DynamoDB, node.js.

**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

**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 and modelling the **data into a Postgres RDS instance, applied 3NF decomposition**.
- Performed query optimizations **to reduce the time taken to query over 10 million records 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.
- **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