

# Aravind Vicinthalang Prathivaathi

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## SUMMARY

- Graduate Student specializing in data management and cloud computing. 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 cloud computing.

## 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](https://github.com/VParavind/Sentiment-Analysis-Covid-19))

October 2020

- Collected data by running a scraper over twitter as well merging data from publicly available data repositories and data ports.
- Sentiments on Covid-19 using twitter data was analyzed with an accuracy of 78% using the RNNs and 85% using LSTM model.
- **Tools:** python3, NLTK, scikit-learn, Tweepy, Twint, pandas, matplotlib, plotly

**Distributed Serverless Web Crawler** ([github.com/VParavind/Serverless-Crawler](https://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](https://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](https://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](https://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