

Aravind Vicinthal Prathivaathi

(571) 524-6813 • aravind.v.prathivaathi@gmail.com

<https://vparavind.github.io/> • <https://www.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

Programming Languages: Python 3.7, JavaScript (ES6+), HTML5, CSS3, SQL, Java 11

Frameworks/Libraries: React, Redux, Django, Node.js, Jest, Enzyme, Express.js, Mongoose, JDBC, ant design native, material-ui

Databases/Tools/Engines: Postgres, MongoDB, Pycharm 2019.1.2, Webstorm 2019, pgadmin4, Studio 3T, AWS-RDS, Jira Management tool, AWS-EC2, AWS-lambda, AWS-DynamoDB, Cassandra, Git

Machine Learning/Data Science: keras, open-cv, scikit-learn, pandas, numpy, Weka 3, PyTorch, fastai

PROFESSIONAL EXPERIENCE

Quantil Inc, Santa Clara, CA

August 2019 – May 2020

Software Engineering Intern, Portal/API

- Part of a team that built a **next-generation content delivery portal**, CDN360, that lets customers configure and accelerate their applications through **1500 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

Uniq Technologies, Chennai, India

August 2017 – November 2017

Software Intern

- Worked part-time in **developing promotional/advertisement websites and job-board web-applications** for 10 different clients.
- Helped **migrating backend code** from Java (with JDBC) to Node.js.
- **Tools:** JavaScript, Java, Node.js

PERSONAL PROJECTS

Itemset Mining: Lattice Generation (<https://github.com/VParavind/Itemset-Mining-Lattice-Generation>)

May 2020

- **Implementation of the Apriori algorithm without pruning**, on the IMDB dataset where a new SQL table is created for each lattice level.
- The actors are the items in itemset mining while the **transactions are the movies in which actors have worked together.**
- **Tools:** Python3, postgres, pandas, numpy, psycopg2

Video Streaming Web App (<https://github.com/VParavind/react-video-streaming-app>)

November 2019

- Mock Web app like Twitch, **which allows users to stream video** to viewers using **react-portal, RTMP server and Open Broadcast software.**
- **Allows streamers to perform CRUD operations** on their streams.
- **Tools:** react-js, redux, react-portal, node.js

Mining and Clustering of IMDB Data (<https://github.com/VParavind/K-means-Clustering>)

April 2019

- Modeled the **data into a postgres RDS instance on AWS 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 present in the dataset and presented a visualization of the optimum cluster number and **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