

# Aravind Vicinthangal Prathivaathi

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## SUMMARY

- Graduate Student specializing in data management and machine learning. Knowledge in various 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.

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## EDUCATION

**Rochester Institute of Technology**, Rochester, NY

*Master of Science, Computer Science, GPA:3.70*

*Expected May 2021*

**Anna University**, Chennai, India

*Bachelor of Engineering, Electrical and Electronics Engineering,*

*May 2018*

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## SKILLS

**Programming Languages:** Python 3.7, JavaScript (ES5, ES6), HTML5, CSS3, SQL, Java 11

**Frameworks/Libraries:** React, Redux, Node.js, Jest, Enzyme, Express.js, Mongoose, JDBC, ant design native

**Databases/Tools/Engines:** Postgres, MongoDB, Eclipse 2019-03, 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, Apache Spark, Weka 3, TensorFlow, Elasticsearch

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## 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

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## 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

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## AWARDS AND CERTIFICATIONS

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