

Aravind Vicinthal Prathivaathi

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SUMMARY

- Graduate Student specializing in data management and machine learning. Experience in software engineering with a broad tech stack.
- Recent professional experience includes working for a content delivery network provider to build web-application and APIs.
- Interests include software-engineering, data analysis and machine learning. Available from 06/2021.

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

SKILLS

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

Frameworks/Libraries/Engines: React, Redux, Node.js, Django, Express.js, Apache Spark, Mongoose, pandas, JDBC, ant design native, Jest, Enzyme

Databases/Tools/OS: Postgres, MongoDB, Eclipse 2019-03, PyCharm 2019.1.2, WebStorm 2019, pgadmin4, Studio 3T, AWS, Linux, Windows, Jira Management tool, MATLAB, Postman

PROFESSIONAL EXPERIENCE

Quantil Inc, Santa Clara, CA

Software Engineering Intern, Portal/API

August 2019 – May 2020

- Worked in **developing a next-generation content delivery portal**, CDN360, that lets customers configure and accelerate their applications through **1500 PoPs worldwide**.
- Worked directly on **adding features at the production level** which are accessible to all CDN360 customers.
- Helped **design and implement RESTful APIs**.
- Day to day tasks involved **adding features, making logical/design improvements, and fixing bugs in the product**.
- **Tools:** react-js, redux, ant-design, java, RESTful APIs, ES6, chrome-devtools, WebStorm, SQL, node.js, enzyme

Uniq Technologies, Chennai, India

Software Intern

August 2017 – November 2017

- Worked part-time in **developing websites and job-board web-applications** for 5 different clients.
- Helped **migrating backend code** from Java (with JDBC) to Node.js.
- **Tools:** MySQL, JDBC, Node.js, HTML5/CSS3, ES6, React, Java, chrome-dev tools.

PERSONAL PROJECTS

Mining and Clustering of IMDB Data

April 2019

- Modeled the **data into RDBMS on the cloud**, applied **3NF decomposition** which **reduced the time taken to query over 10 million records of data to 30 seconds**.
- **Applied k-means clustering** based on the movie genres present in the dataset and presented a visualization of the optimum cluster number.
- **Tools:** Postgres, MongoDB, python3, scikit-learn, Java, JDBC

Video Streaming Web App

November 2019

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

Medical Image classification

May 2020

- Image classification on medical data consisting of tumor images.
- **AlexNet and ZFNet** Convolutional Neural Networks were used with each giving an accuracy of 63.56% and 84.42% respectively.
- **Tools:** Python, OpenCV, Keras, Tensorflow

AWARDS AND CERTIFICATIONS

- **Awarded 40% Merit Scholarship worth \$25,000** for the Computer Science, Master of Science program
- Completed Bachelor's Degree with **first class merit**.