SHARATH CHANDRA NAGULAPALLY

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OBJECTIVE

Master of Computer Science Student exploring full-time opportunities in the field of Software Engineering.

TECHNICAL SKILLS

Languages:	Python, Java, R, C++
Database Systems:	*SQL:* MySQL, PostgreSQL, H2Database, *NoSQL:* MongoDB, Amazon DynamoDB
Web Technologies:	Spring Boot, React, Redux, Node.js, HTML, CSS, JavaScript, RESTful API
Cloud Services:	Amazon Web Services (AWS), Google Cloud Platform
Tools/Technologies:	Git, Jira, Bitbucket, AWS (Lambda, S3, API Gateway)

WORK EXPERIENCE

Rochester Regional Health, Rochester, New York **Sept 2019 – May 2020**

Software Engineer Co-op

- Worked on development of reusable components using React and Redux to enhance the user experience.
- Created API calls and deployed them to AWS Lambda and passed them to the reusable serverless react components.
- Improved the efficiency of the existing code by reducing the number of calls to the AWS Lambda/DynamoDB
- Responsible for adding new features to the existing application which is used by 4 hospitals in Rochester. Created new data reports and data visualizations for the hospital representatives to analyze different insights.
- Written scripts to populate the data from the application. Generated reports to analyze performance of hospitals.
- **Technologies:** React, Redux, AWS DynamoDB, AWS Lambda, NodeJS, R, Python, Tableau

EDUCATION

Rochester Institute of Technology, New York **GPA: 3.73/ 4.0** **August 2018 – May 2021**

Master of Science (MS) in Computer Science

Relevant Coursework: Data Management and Analytics, Artificial Intelligence, Algorithms, Advanced Object-Oriented Programming

Jawaharlal Nehru Technological University, India **August 2014 - May 2018**

Bachelor of Technology in Computer Science

Relevant Coursework: Operating Systems, Distributed Systems, Data Mining and Business Intelligence, Cloud Computing

PROJECTS

Full Stack Culinary Forum Application| Java, Spring Boot, RESTful API, MySQL, MongoDB, React

- Developed the back-end architecture by creating RESTful APIs using Spring Boot in Java.
- Implemented CRUD operations for data objects and mapped them to a Relational MySQL database using Spring DATA JPA.
- Developed the front-end side of the application using React to enhance user experience by providing a good UI.
- Created the same back end architecture using Node.js for server-side development in JavaScript and used a NoSQL MongoDB for the database using Mongoose ODM for data mapping.

Data Projects on IMDb and Yelp Dataset | Python, PostgreSQL, MongoDB, DynamoDB, Pandas, Matplotlib

- Performed data preprocessing, data preparation and normalization of the datasets having records of over 600K using MySQL and Postgres server.
- Preprocessed and cleaned the dataset to load it into MongoDB, DynamoDB.
- Performed data integration and data visualization using libraries such as tableau, matplotlib, seaborn.
- Clustered data using clustering techniques such as K-means.

Distributed Web Services System | Java, SOAP web services

- Developed a web services system using Spring Boot to develop multiple services on various servers at once.
- Implemented load balancing across the servers with mutual services using the round-robin technique.
- Created HTTP connections between the user client and the servers to facilitate SOAP communication using XML for the services.

Maze Solver | Python

- Developed an intelligent agent which senses the environment using machine learning techniques to dodge the walls and bullets from enemies.
- The agent also always aims the highest score possible and finds the shortest distance using advanced search algorithms like A* to find exit points.

Counterfeit Bank Note Detection | R

- Designed a model from scratch using machine learning techniques which detects the fake notes with an accuracy of 97.66%.
- Developed and analyzed Decision Trees, Naïve Bayes models to decide which performs better for this dataset.