Akshaj Prakash Maldikar

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Education

University of Texas at Arlington — Arlington, TX
Master of Science in Computer Science — *Aug. 2018 – Dec. 2020*

Mumbai University — Mumbai, India
Bachelor of Science in Computer Science — *Aug. 2014 – May 2018*

Experience

Software Graduate Intern — 06/2019 – 12/2019
Intel Corporation — *Portland, OR*

- Contributed to the team by creating a user interactive web-based dashboard that pulls millions of documents from a NoSQL database and renders the data as graphs and tables.
- Designed ReST-APIs using Flask to format a large amount of data on the backend side and then fetch it from the frontend side. Used JavaScript to work on the UI of the website.
- Optimized the code by debugging and identifying a bottleneck during time conversion to speed up the loading time for graphs by up to 50%. Initially, the graphs took around 15 seconds to load more than a million data points.

Technical Skills

Languages: Python, JavaScript, Go, Java, HTML, CSS
Frameworks: React, Flask, Node.js, Express.js, Material-UI
Developer Tools: Jupyter, Spyder, Git, VS Code, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Plotly
Databases: MongoDB, Elasticsearch

Projects

Covid19 tracker | *JavaScript, React* | github.com/akshajm/covid19-dashboard — 11/2020

- Implemented an interactive and responsive Covid19 dashboard using React-Hooks that shows coronavirus data worldwide and for individual countries.
- Used leaflet.js to show highly impacted areas for the selected part on the world map.
- Utilized react-chartjs to show a line graph of number of increased cases each day.
- Sorted countries by the total number of cases and presented them in the form of a table.

Sudoku visualizer | *JavaScript, React* | github.com/akshajm/Sudoku_solver — 10/2020

- Developed a web-based 9x9 Sudoku visualizer app using React framework.
- The web app will walk through the solution for the given Sudoku problem using the backtracking approach.
- The web app contains a feature that controls the speed of visualization.
- The speed of the slider goes from 0 to 1. At 1, the given Sudoku problem is solved.

Chat application | *Python, Socket, TkInter* | github.com/akshajm/ClientServerApplication — 05/2020

- The purpose of the project was to design a multi-client server application using socket programming.
- GUI of the app is done in Python using TkInter library. The app showcases different thread management and socket programming concepts.
- The clients can connect to the server with an unique username and send messages to the server.
- Also the client thread can sleep, resume and logout from the chat.

Comparing sorting algorithms | *Python, Flask, JavaScript* | github.com/akshajm/Algorithms — 04/2020

- Implemented a web application which compares runtime complexity of different sorting algorithms like Bubble sort, Merge sort, Heap sort, etc.
- Using JavaScript's Plotly library, the resulting graph is displayed.
- The data used for sorting are random integers generated using the Numpy library where the user can select the size of data array.
- Comparisons can be made between two or all algorithms. The resulting graph will be the time taken to sort the data.