

# Akshaj Prakash Maldikar

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## EDUCATION

### University of Texas at Arlington

*Master of Science in Computer Science*

Arlington, TX

Aug. 2018 – Dec. 2020

### Mumbai University

*Bachelor of Science in Computer Science*

Mumbai, India

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 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 huge amount of data on the back-end side and then fetch it from the front-end to be displayed on the dashboard using JavaScript.
- Optimized the code by identifying a bottleneck during time conversion to speed up the loading time for graphs by up to 50%. Initially, the graphs took around 60 seconds to load more than a million data points.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, SQL, HTML/CSS

**Frameworks:** React, Node.js, Flask, ExpressJS, JUnit, Material-UI, AJAX

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Plotly

## PROJECTS

### Covid19 tracker | *JavaScript, React* | [github.com/akshajm/covid19-dashboard](https://github.com/akshajm/covid19-dashboard)

11/2020

- Implemented an interactive and responsive Covid19 dashboard 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](https://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](https://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 a 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](https://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.