

# 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 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, SQL, Java, HTML, CSS

**Frameworks:** React, Redux, Flask, Node.js, Express.js, Material-UI

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

**Libraries:** pandas, NumPy, Plotly

**Databases:** MySQL, MongoDB, Elasticsearch

## PROJECTS

### Job search application | *JavaScript, React, Redux, Jest* | [github.com/akshajm/job-search-app](https://github.com/akshajm/job-search-app)

03/2021

- Created a responsive website where a user can search for jobs based on title, company, location, and full-time roles. The jobs are fetched from Github jobs API.
- For the first time, the website will display the jobs based on the user's current location.
- Implemented a light and dark theme mode using a toggle button.
- The UI of the website is created using React and the state is managed with Redux. Used Jest and enzyme for testing.

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

### 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.