

# Saad Shaikh

[sshaikh8@asu.edu](mailto:sshaikh8@asu.edu) | 4809095054 | Redmond, WA | <https://www.linkedin.com/in/saadshaikh96> | <https://github.com/saadshaikh96>

## EDUCATION

### Master of Computer Science (GPA: 3.63/4.0)

Arizona State University

May 2020

Tempe, Arizona

### Bachelor of Computer Engineering (GPA: 3.5/4.0)

University of Mumbai

June 2018

Mumbai, India

## LANGUAGES AND TECHNOLOGIES

- |                                |  |
|--------------------------------|--|
| • Programming and Databases:   | Python, Java, JavaScript, SQL, MongoDB                       |
| • Full Stack Development:      | HTML, CSS, React, Node, Express, GraphQL, Firebase, Mongoose |
| • Big Data / Machine Learning: | Hadoop, Spark, SparkSQL, PySpark, pandas, sklearn            |
| • Tools:                       | Grafana, Kibana, Tableau, Power BI                           |

## WORK EXPERIENCE

### Software Data Operations Engineer

MAQ Software

November 2020 - Present

- Currently working on client-side reporting and exploratory data analysis using Power BI.

### Software Engineer, Intern

Cyrecon

June 2019 – August 2019

- Inferred actionable insights from incoming logs using an ELK stack hosted on an AWS EC2 instance.
- Visualized log metrics on dashboards and set up alerts using Grafana that improved data monitoring processes and resulted in reduced system downtime.

## PASSION PROJECTS

### Amazon Clone ([Link](#))

January 2021

- Taught myself React and developed a responsive mockup of the Amazon website as a single page application (SPA) using React Hooks and the Context API.
- Implemented user authentication and stored user data in the backend using Firebase to track the user's past orders.
- Implemented a checkout functionality that processes payments in a Node.js backend using the Stripe API.

### COVID Dashboard ([Link](#))

December 2020

- Created a responsive website using React to track the status of COVID-19 in different countries.
- Implemented a geographical map with a bubble chart overlay using Leaflet to display the scale of cases, recoveries, and deaths related to COVID around the world.
- Implemented a country picker using Material UI that changes the data being displayed depending on the country selected.

### E-commerce Website

June 2020

- Learned back-end development using Express and developed an e-commerce website where users can buy and sell products.
- Utilized sessions and stored data in MongoDB in order to individualize user experience.
- Improved user experience by increasing responsiveness of the webpage while validating user credentials during login.

### Hadoop and Spark Fundamentals

May 2019

- Taught myself the fundamentals of big data processing using Hadoop and Spark in a map reduce environment.
- Learned PySpark and performed Logistic Regression on a Titanic Survivor dataset and achieved an accuracy of 92%.
- Implemented Spark Streaming to count the words being typed in a local terminal.

## ACADEMIC PROJECTS

### Similarity and Classification of Hand Image Data

November 2019

- Extracted features (Color models, Local Binary Patterns) from 11000 hand images and computed the k-most similar images.
- Performed dimensionality reduction, computed similarity scores and performed classification using SVM and Decision Trees based on image and user metadata in the new latent semantic space.
- Reduced search space using LSH and developed a relevance system to reorder results based on user feedback.

### Song Popularity Prediction

March 2019

- Predicted popularity of songs using Random Forests, Decision Trees, Regression, and SVM on the Million Song Dataset.
- Achieved accuracies of 64% and 68% on three and four class predictions respectively. Implemented a collaborative filtering model to predict user playlists using Spotify data.

### MNIST Data Classification

November 2018

- Trained a 3 layer fully connected neural network for classification of Fashion-MNIST data.
- Improved convergence of the cost function and reduced training time by utilizing momentum based mini batch gradient descent techniques, achieving an accuracy of 94% using RMSProp

## CERTIFICATIONS

- Microsoft Certified Data Analyst Associate

November 2020