**Saad Shaikh**

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| **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* |

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| **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 |

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| **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 anELK 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. | | |

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| **PASSION PROJECTS** | |
| **Amazon Clone (**[**Link**](https://clone-90982.web.app/)**)** | **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**](https://covid-dashboard-f1adf.web.app/)**)** | **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. | |

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| **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 | |

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| **CERTIFICATIONS** | |
| * Microsoft Certified Data Analyst Associate | **November 2020** |