

# Syed Adil Hasan Naqvi

Mechanical Engineer

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## Summary

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A programming enthusiast, amateur book reader with a knack for graphics designing, aiming to expand current skill set in order to solve real world problems via rigorous research in the field of computer engineering.

## Education

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2015-19	Bachelor's degree in Mechanical Engineering from National University of Sciences and Technology (NUST), Islamabad
2018-19	Minor in Computer Sciences from NUST, Islamabad
2013-15	Intermediate from Government College University, Lahore

## Test Scores

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- GRE General 319, 4.0
- IELTS Academic 7.5

## Certifications/Specializations

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- Applied Data Science Specialization – by IBM through Coursera
- Python for Everybody Specialization – by University of Michigan through Coursera
- Microsoft Office Specialist Certification – earned at MOS NUST

## Skills

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### Competent in

- Artificial intelligence
  - Deep learning
  - Genetic algorithms
  - SVMs
  - TensorFlow
  - Scikit-learn
- Data science
  - Numpy/Pandas
  - Matplotlib
  - MySQL/SQLite
- Web development
  - React (JS)
  - SASS (CSS)
  - jQuery
  - APIs
- 3D modeling
  - SolidWorks 2016
  - ProE Wildfire
- Source control
  - GitHub & GitKraken

### Familiar with

- LabView (Data acquisition)
- Proteus (Circuit design)
- Requests & BS4 (Web scrapping)
- Latex (Documentation)

## Projects

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- **Portfolio website**  
Made a modern and responsive portfolio website from scratch using ReactJS
- **Color classifier**  
Crowd-sourced and preprocessed training data to train a neural network to classify colors based on their RGB value. Achieved 92% accuracy
- **Dictionary using treaps**  
Implemented treaps data structure in C++ and made a fully functional digital dictionary with word search, addition and deletion capabilities
- **Traveling salesman problem**  
Used genetic algorithm with mutation in MATLAB to solve the classic TSP. Achieved optimal path for 20 cities within 30s
- **Glass identification**  
Used KNN, SVM & NN to classify glass based on its composition and to document merits and demerits of each method. Achieved 72%, 81% & 83% accuracy respectively
- **SCARA kinematics**  
Made a GUI using MATLAB to determine forward and inverse kinematics of a SCARA robot
- **ABS in RC car**  
Implemented automatic braking system on a remote-controlled car using Arduino UNO and an ultrasonic sensor with data acquisition in LabView

## Experience

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Aug. 2017	Operations Intern at Mari Petroleum Company Limited – documented daily rig statistics and made “End of Well Report”
2017-18	Event Management Executive at NUST Community Service Club
2016-18	Director at NUST Society of Mechanical Engineers – supervised the Graphics team to design banners & social media posts for numerous events
2016	Graphics Executive at NUST Olympiad 2016

## Social Work

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Jan. 2019	Conducted “Water Conservation Awareness Drive” at Army Public School Islamabad
Oct. 2018	Collected, cleaned, and distributed 100+ items of clothing to Wall of Kindness in Islamabad
Nov. 2017	Conducted “Blood Donation Drive 2017” at NUST with NUST Community Service Club

## Hobbies

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- Casual reading
- Chess
- Graphics designing
- Podcasts