

# MINOO TAGHAVI

• Data Scientist & Transportation Engineer•

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in /minootaghavi

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## ABOUT ME

Data Scientist and Transportation Engineer with 5 years of experience in transportation industry, machine learning, deep learning algorithms, and analysis of large-scale datasets. Seeking to leverage my engineering expertise, programming and data analysis skills in data science industry.

## SKILLS

Python	ArcGIS- ArcMap
SQL	Roadware Vision
Machine Learning	MicroStation
Microsoft Excel	Tableau
Microsoft Access	AutoCad
R programming	3D Sketchup

## EXPERIENCE

**Aug 2020- Data Science Fellow- General Assembly, Washington DC**

- Dec 2020**
- Completed 30+ projects and labs utilizing the entire data science workflow, including data acquisition, data cleaning, data visualization, exploratory analysis, feature selection, modeling, and evaluation.
  - Conducted natural language processing on thousands of scraped Reddit posts to train several classification models.
  - Geospatial Analysis of areas at risk for COVID-19 and natural disasters in California using python and ArcGIS and Tableau.
  - Lane detection with deep learning using transfer learning and Pytorch library.

**Jul 2018- Transportation Engineer- Applied Research Associates Inc., On-site consultant for Maryland Department of Transportation, State Highway Administration**

- Present**
- Development and improvement of data quality management protocols and procedures.
  - Pavement network data analysis, reporting, and mapping. (SQL, Excel, ArcGIS)
  - Performance metric evaluation of MDOT SHA roadways using pavement condition and construction history data.

**Jan 2018- PhD Graduate Research Assistant- University of Maryland, College Park**

- Jul 2018**
- Studied transportation systems and conducted traffic modeling projects such as modeling traffic flow using PTV Vissim.

**Jan 2017- Project Engineer- Milani Construction LLC, Washington DC**

- Jan 2018**
- Prepared cost estimates for asphalt pavement and bridge construction projects.
  - Assisted with construction bidding process, CPM scheduling, takeoffs and estimates.

**Jun 2016- Transportation Engineer- EBA Eng. Inc. - Consultant of MDOT- SHA**

- Jan 2017**
- Prepared RFIs, material clearance, change orders and progress report.
  - Worked on MCMS/MMS programs to manage cost/expense for labors and equipments.

**Apr 2015- Project Manager Assistant Intern - PWE, City of Houston, Texas**

- Apr 2016**
- Worked on cost estimation and scheduling and reviewed field material orders.
  - Assisted in inspection and project management of waterline and traffic signalization.

## EDUCATION

2014 - 2016 • University of Houston

**M.Sc. in Construction Engineering & Management**

2009 - 2014 • Ferdowsi University of Mashhad

**B.Sc. in Architectural Engineering**

## CERTIFICATION

- Data Science Immersive Certification - Completed 480 hours
- ArcGIS Training Certification
- OSHA Construction