

MINOO TAGHAVI

• Data Scientist & Transportation Engineer•

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

- 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