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Description automatically generatedData Scientist & Transportation Engineer

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Description automatically generated Washington, DC. (202) 604-1905 [minoot7.github.io/MinooTaghavi](https://minoot7.github.io/MinooTaghavi/)

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**ABOUT ME SKILLS**

Data Scientist and Transportation Engineer Python ArcGIS- ArcMap

with machine learning, deep learning algorithms, SQL Roadware Vision

and analysis of large-scale datasets. Seeking to Machine Learning MicroStation

leverage my engineering expertise, programming Microsoft Excel/Access Tableau

and data analysis skills in data science field. AutoCAD R programming

**EXPERIENCE**

**Data Science Fellow- General Assembly, Washington DC** **AUG 2020- 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 (using NLTK library in Python) on thousands of scraped Reddit posts to train several classification models to predict related subreddit.

• Built geospatial analysis of areas at risk for COVID-19 and natural disasters in California using python (Clustering algorithm) and ArcGIS and Tableau.

• Developed Lane detection with deep learning (CNN architecture) with 88% accuracy on test data set using transfer learning and Pytorch library.

**Transportation Engineer- Applied Research Associates Inc., JUL 2018- PRESENT**

**for Maryland Department of Transportation, State Highway Administration**

• Developed and improved data quality management protocols and procedures saving hundreds of man-hours.

• Worked on pavement network data analysis, reporting, and mapping (SQL, Excel, ArcGIS).

• Developed performance metric evaluation of MDOT SHA roadways using pavement condition and construction history data.

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

• Studied transportation systems and conducted traffic modeling projects such as modeling traffic flow using PTV Vissim for prediction and improvement of traffic flow.

**Project Engineer- Milani Construction LLC, Washington DC JAN 2017- JAN 2018**

• Prepared cost estimates for asphalt pavement and bridge construction projects.

• Participated in construction bidding process, CPM scheduling, takeoffs and estimates.

**Transportation Engineer- EBA Eng. Inc. - Consultant of MDOT- SHA JUN 2016- JAN 2017**

• Prepared RFIs, material clearance, change orders and progress report.

• Worked on MCMS/MMS programs to manage cost/expense for labors and equipment.

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