

# DIARRA FALL, PE

NASHVILLE, TN (615) 638-2772 DIARRA.FALL@OUTLOOK.COM LICENSE NO. 123431  
LINKEDIN.COM/IN/DIARRAFALL GITHUB.COM/DIARRA-FALL

Licensed Engineer with 7+ years of experience in traffic engineering, signal design, and structural design. Possess a strong foundation in data analysis/visualization and the desire to apply that to traffic and transportation data.

## EXPERIENCE

### NASHVILLE SOFTWARE SCHOOL, NASHVILLE, TN

*Data Analyst Apprentice, January 2023 - Present*

Intensive full-time bootcamp focusing on data analytics fundamentals and problem solving. Used real-world datasets and included projects where findings were presented to stakeholders from the community.

- Analyzed data using Microsoft Excel, including utilizing pivot tables and lookups, and connected to external data sources using the PowerPivot add-on
- Wrangled data and performed exploratory data analysis using Python's *pandas* library
- Created data visualizations using *matplotlib* and *seaborn*
- Retrieved and analyzed data using PostgreSQL
- Source code version control with Git/GitHub
- Project management/tracking with GitHub project boards and issue tracking

### KIMLEY-HORN, NASHVILLE, TN

*Transportation Engineer, June 2021 – January 2023*

- Managed \$400,000+ of projects and tasks, ensuring completion on time and under budget
- Analyzed months of historical traffic data and produced a traffic responsive signal system in East Tennessee
- Led the Concept of Operations and Systems Engineering process for the Nashville Traffic Management Center
- Organized and led workshops, meetings, and designs for the Nashville Traffic Calming Program
- Supervised Traffic E.I. team member, focusing on technical and professional career growth, training and integration, and oversight of work performed
- Performed engineering design services for clients across the state of Tennessee
- Represented Kimley-Horn at National and State technical conferences

### TENNESSEE DEPARTMENT OF TRANSPORTATION, NASHVILLE, TN

*Transportation Project Specialist (Traffic Operations), August 2018 – June 2021*

Safety and Operations

- Performed engineering design and created plans for special projects (a mini roundabout, travel time signs)
- Directed research projects and facilitated quarterly research meetings
- Reviewed manuals, reports, and other documents submitted by consultants
- Engaged in road safety audits with internal divisions and local officials
- Analyzed crash data, composed PM3 report, and reported on congestion and bottlenecks
- Researched and provided responses to traffic operations-related comments from the public

## Traffic Signals

- Designed traffic signals in compliance with the MUTCD, Green Book, and TDOT standards
- Created signal plans in MicroStation (placed conduit, signal heads, detection, etc.)
- Coordinated with local officials to ensure that designs suited their needs
- Conducted field reviews of construction plans

*Transportation Project Specialist (Structures), January 2017 – August 2018*

*Graduate Transportation Associate (Structures), January 2016 – January 2017*

- Designed prestressed concrete bridges using the LEAP bridge design suite
- Reviewed shop drawings, bridges, culverts, and other structural designs for LRFD compliance
- Communicated plan details to drafters
- Performed grade and quantity checks

## EDUCATION

NASHVILLE SOFTWARE SCHOOL, NASHVILLE, TN

*Data Analytics Certification*

UNIVERSITY OF TENNESSEE, KNOXVILLE, TN

*Master of Science in Civil Engineering (Public Works Concentration)*

TENNESSEE STATE UNIVERSITY, NASHVILLE, TN

*Bachelor of Science in Civil Engineering*

## ADDITIONAL INFORMATION

- Infrastructure Lead for the Kimley-Horn Nashville Office Women's Leadership Group
- TDOT Graduate Transportation Associate Advisory Board Member - created trainings for and provided mentorship to incoming engineers
- Mentor to 3 interns as part of the TDOT Summer Internship Program