

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson



Software Developer - Lead
IT Division - Product Development
Nashville, TN
\$89,496 - \$116,364 annually

Overview

The Tennessee Department of Transportation is currently hiring an experienced and motivated senior-level developer who is excited to design and develop web-based applications in a collaborative environment.

Key Responsibilities

The Lead Software Developer is passionate about building software applications, modeling the tenets of scrum, and creating a culture of inclusion and personal and professional growth. They will act as a technical and cultural leader, which includes (but is not limited to) mentoring team members in software development, partnering with management to develop individual performance plans designed to advance technical skills, and working with TDOT IT to set strategic development and growth plans for the Product Development Team. They understand the importance of following organization-defined standards but finds energy in exploring and recommending new technologies, when appropriate. They are experienced in practicing Scrum or Kanban in an Agile environment and is comfortable working closely on a small team of people in a remote environment that encourages collaboration and conversation. The Lead Software Developer respects diversity of thought appreciates the power of humor, and prizes honesty.

Required Technical Skills

The Software Developer Lead must have experience and be familiar with these concepts for technologies.

- A broad understanding of the C# programming language and the .NET framework
- Experience with .NET 4.5+ or .NET Core 2+
- Experience with Angular 19+
- Experience with ASP.NET MVC 5 or ASP.NET Core 2.1+
- Experience with Microsoft Authentication Library (MSAL) for Microsoft Entra ID
- Experience using a version control system
- Experience with HTML, JavaScript, and CSS
- An understanding of building single-page applications
- Experience with Unit Testing
- Experience working with relational databases
- General comfort with value-driven software development and incremental release concepts

Additional Skills and Abilities:

- MVC Design Patterns
- [ASP.NET](#), ASP.NET Core, or another server-side API framework
- GitHub
- Azure DevOps
- Other client-side JavaScript frameworks
- Angular Material, Bootstrap or other CSS frameworks
- Unit Testing (front-end with Jasmine/Karma, back-end with MSTest, xUnit, or comparable)
- Version Control
- Experience building applications using mapping technologies like Google Maps or ESRI would be beneficial

- Develops, designs, or creates new applications, ideas, relationships, systems, or products, including artistic contributions.
- Observes, receives, and otherwise obtains information from all relevant sources.
- Reads and interprets written functional specifications. Interviews business users to establish functional requirements.
- Discusses current system operations, proposed system requirements, and user needs with relevant stakeholders, including clients, users, and management.
- Examines system specification, input/output reports, existing equipment, security protocols and system interfaces to understand how the current system operates.
- Compiles, codes, categorizes, calculates, tabulates, audits, or verify information or data.
- Generates data to test programs and/or system conditions by extracting data from existing sources or entering new data.
- Tests and troubleshoots programs using generated data to determine if the program produces the correct execution sequence and programs interface as specified.
- Estimates sizes, distances, and quantities; or determines time, costs, resources, or materials needed to perform a work activity.
- Provides guidance and direction to subordinates, including setting performance standards and monitoring performance.
- Compare current system processes to proposed system changes to determine the potential impact on other systems and business operations.
- Analyzes existing data for accuracy and completeness.
- Identifies the data input, output sources and logical interfaces, to estimate the volume of associated data within the system.

Qualifications

- Graduation from an accredited college or university with a bachelor's degree and five years of professional level experience in systems analysis, application design, or software development of business information systems.
- Substitution of a specific associate degree for the Required Bachelor's Degree: Graduation from an accredited college or university with an Information Technology related associate degree may substitute for the required bachelor's degree.
- Substitution of Experience for the Specific associate degree: Professional level experience in the following area may substitute for the required Information Technology associate degree on a year-for-year basis to a maximum substitution of two years: systems analysis, application design, or software development of business information systems.
- Substitution of Graduate Coursework for the Required Experience: Any additional graduate coursework in software development may substitute for the required experience on a year for year basis to a maximum substitution of one year.
- Other Requirements: Necessary Special Qualifications: None. Examination Method: Education and Experience,100%, for Preferred Service positions.

Questions? Email TDOT.Careers@tn.gov

Pursuant to the State of Tennessee's Workplace Discrimination and Harassment policy, the State is firmly committed to the principle of fair and equal employment opportunities for its citizens and strives to protect the rights and opportunities of all people to seek, obtain, and hold employment without being subjected to illegal discrimination and harassment in the workplace. It is the State's policy to provide an environment free of discrimination and harassment of an individual because of that person's race, color, national origin, age (40 and over), sex, pregnancy, religion, creed, disability, veteran's status or any other category protected by state and/or federal civil rights laws.