

# ATI Job Profile

## Sr. Software Engineer (Web)

Location: Novi, MI USA

Senior Software Engineers design and create websites, services and other online applications, which requires knowledge of programming languages, UI/UX principles, data storage services, security and performance. They will also be responsible for desktop or mobile applications that communicate with servers using a variety of protocols and data formats.

In addition to their web development duties, Senior Software Engineers are also responsible for training junior developers and other groups on the products and technologies they are using or creating.

### ***Responsibilities***

These are the day to day expectations.

- Research, architect, design, implement, test and support all aspects of large multi-tenant enterprise web services, as well as mobile and desktop applications
- Create and maintain systems that store and process large amounts of data from 1000's of concurrently connected users from all around the world
- Work on all aspects of web development including security, performance, backend services, integration with external services, UI/UX, mobile and desktop application integration, SDK/API design, installation and deployment.
- Develop applications and utilities using a variety of programming languages including C#, JavaScript, TypeScript, C/C++ and PowerShell
- Own features from initial research all the way through to final release and be the "go to" person for information related to those features
- Communicate effectively, both verbally and in writing, with team members, other groups and customers
- Gather requirements, use cases and user stories from other groups while also providing alternative options and additional requirements that may not have been identified originally
- Transform high level feature requests into designs and implementations that are performant, secure and maintainable by other team members
- Determine the best services, libraries and technologies to use based on factors such as cost, performance, availability and long term support
- Quickly learn new technologies, communication protocols, file formats and software to a level that allows you to make educated decisions, designs and implementations using them and to help train other team members on them
- Create and maintain unit/automation tests that can be used to verify existing functionality and new code works as expected in both normal and failure conditions
- Maintain existing web, mobile and desktop products by adding new functionality and providing defect fixes as needed

- Keep up to date on new technologies and methodologies that are relevant to software engineering so they can be considered and utilized in the products and feature you work on
- Identify, diagnose and resolve CPU, network and server performance issues using a variety of tools and techniques in order to provide scalable and secure solutions to our customers

## ***Developer Skills***

These are the technical skills that are needed and could be used on a daily basis.

- Expert in creating web based products using these technologies
  - C#, JavaScript
  - ASP.NET Core
  - Entity Framework Core
  - Microsoft SQL Server
- Experience creating desktop, mobile and web based products using many different languages, specifications and technologies such as
  - C, C++, C#, JavaScript, TypeScript
  - HTTP, HTML, CSS, JSON, XML
  - SQL, LINQ
  - TCP/IP and UDP based protocols
  - SSL/TLS, client and server certificates
  - .NET Framework, .NET Core
  - Entity Framework, Entity Framework Core
  - ASP.NET, ASP.NET Core
  - Angular, React, Vue
  - Windows Forms, WPF, Win32 API
  - xUnit, MSTest
  - LDAP, ActiveDirectory, social authentication
  - MySQL, PostgreSQL, Microsoft SQL Server
  - MongoDB, Cosmos DB
  - Microsoft IIS, Apache HTTP Server
  - Microsoft Azure Services
  - RabbitMQ, Kafka, MQTT, SignalR, Hangfire
- Experience in advanced engineering skills such as
  - Mult-threading and concurrency handling
  - Debugging network communication protocols
  - Network security and user authentication
  - Writing code that uses memory, CPU and networks efficiently
  - Multi-tenant web hosting and data storage
  - Cloud based web hosting
  - SQL and Entity Framework performance tuning
  - Horizontal and vertical server scaling
  - Advanced SQL queries and indexing
  - Unit/automation testing
  - Dependency injection and interface usage

## ***Tools of the Trade***

These are the typical developer tools and services being used.

- Visual Studio (version 2013 - latest)
- Visual Studio Code
- Team Foundation Server
- Microsoft IIS
- Microsoft SQL Server
- Microsoft Azure Services

Candidates who meet the preceding qualifications should email their resume to:

[hr\\_us@accuratetechnologies.com](mailto:hr_us@accuratetechnologies.com).