Assignment #2

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Note: Yellow highlights indicate unfamiliar terms

Source: Indeed.com

Search Term: Web Developer

#1 Position: Junior Front End / UI Developer

Term(s): Experience with Angular, ReactJS, MEAN stack and Dojo or other modern frameworks is a plus. Familiarity using GIT for source code management is preferred.

Research:

MEAN stack – **solution stack** or **software stack** is a set of [software](https://en.wikipedia.org/wiki/Software) subsystems or components needed to create a complete [platform](https://en.wikipedia.org/wiki/Computing_platform) such that no additional software is needed to support applications. MEAN is a free and open source JS software stack, comprising of  [MongoDB](https://en.wikipedia.org/wiki/MongoDB" \o "MongoDB), [Express.js](https://en.wikipedia.org/wiki/Express.js), [AngularJS](https://en.wikipedia.org/wiki/AngularJS) (or [Angular](https://en.wikipedia.org/wiki/Angular_(application_platform))), and [Node.js](https://en.wikipedia.org/wiki/Node.js). All components of the MEAN stack support programs are written in JavaScript, MEAN applications can be written in one language for both [server-side](https://en.wikipedia.org/wiki/Server-side) and [client-side](https://en.wikipedia.org/wiki/Client-side) execution environments.

Modern framework – Frameworks give you **space to focus on developing interactive elements of the user interface** without worrying too much about code structure and code maintenance. Many of them use Javascript (JS).

GIT - is a [version control system](https://en.wikipedia.org/wiki/Version_control_system); a component of [software configuration management](https://en.wikipedia.org/wiki/Software_configuration_management), **version control**, also known as **revision control** or **source control**,[[1]](https://en.wikipedia.org/wiki/Version_control#cite_note-Mercurial-1) is the management of changes to documents, [computer programs](https://en.wikipedia.org/wiki/Computer_program), large web sites, and other collections of information. GIT for tracking changes in [computer files](https://en.wikipedia.org/wiki/Computer_file) and coordinating work on those files among multiple people. It is primarily used for [source code management](https://en.wikipedia.org/wiki/Source_code_management) in [software development](https://en.wikipedia.org/wiki/Software_development),[[8]](https://en.wikipedia.org/wiki/Git#cite_note-effcomp-8) but it can be used to keep track of changes in any set of files.

#2 Position: Software Developer (.NET)

Term(s): 3-4 years of experience developing .NET Web Applications, Looking for full lifecycle production software development.

Research:

.NET Web Applications - **.NET Framework** (pronounced *dot net*) is a [software framework](https://en.wikipedia.org/wiki/Software_framework) developed by [Microsoft](https://en.wikipedia.org/wiki/Microsoft) that runs primarily on [Microsoft Windows](https://en.wikipedia.org/wiki/Microsoft_Windows). It includes a large [class library](https://en.wikipedia.org/wiki/Class_library) named [Framework Class Library](https://en.wikipedia.org/wiki/Framework_Class_Library) (FCL) and provides [language interoperability](https://en.wikipedia.org/wiki/Language_interoperability) (each language can use code written in other languages) across several [programming languages](https://en.wikipedia.org/wiki/Programming_language).

Full lifecycle production software development - The **systems development life cycle** (**SDLC**), also referred to as the **application development life-cycle**, is a term used in [systems engineering](https://en.wikipedia.org/wiki/Systems_engineering), [information systems](https://en.wikipedia.org/wiki/Information_system) and [software engineering](https://en.wikipedia.org/wiki/Software_engineering) to describe a process for planning, creating, testing, and deploying an [information system](https://en.wikipedia.org/wiki/Information_system).

#3 Position: Entry Level Software Developer

Term(s): C#,C++, VB Script, Object oriented programming, Mobile development for Windows and Android, Eclipse, IntelliJ IDEA,

Research:

VB Script – ("Microsoft **Visual Basic Scripting** Edition") is an Active **Scripting** language developed by Microsoft that is modeled on **Visual Basic**. It allows Microsoft Windows system administrators to generate powerful tools for managing computers with error handling, subroutines, and other advanced programming constructs.

Object oriented programming – Object-oriented programming (OOP) is a programming language model organized around [objects](http://searchsoa.techtarget.com/definition/object) rather than "actions" and data rather than logic

Eclipse - is an [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) (IDE) used in [computer programming](https://en.wikipedia.org/wiki/Computer_programming), and is the most widely used Java IDE.

Intellij IDEA – is a [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) (IDE) for developing computer software. It is developed by [JetBrains](https://en.wikipedia.org/wiki/JetBrains) (formerly known as IntelliJ),

#4 Position: Jr. Software Developer

Term(s): Participate in regular scrum meetings for our agile development process. Build and maintain scalable web applications.

Research:

Scrum meetings - a daily scrum meeting is held in the morning, as it helps set the context for the coming day's work. These scrum meetings are strictly time-boxed to 15 minutes. This keeps the discussion brisk but relevant.

Agile development – “Agile Development” is an umbrella term for several iterative and incremental software development methodologies. The most popular agile methodologies include Extreme Programming (XP), Scrum, Crystal, Dynamic Systems Development Method (DSDM), Lean Development, and Feature-Driven Development (FDD).

Scalable web applications – A well-designed **application** should be able to scale seamlessly as demand increases and decreases, and be resilient enough to withstand the loss of one or more compute resources

#5 Position: NJ FrontEnd Engineer, Web Developer, Rockstar HTML5/CSS3/AngularJS

Term(s): End Developer with experience in web development (JavaScript or Angular.JS), CSS pre-processors, Bootstrap, Grunt.

Research:

Angular.js – **AngularJS** is a structural framework for dynamic web apps. It lets you use HTML as your template language and lets you extend HTML's syntax to express your application's components clearly and succinctly.**AngularJS's** data binding and dependency injection eliminate much of the code you would otherwise have to write.

Css pre-processors - A **preprocessor** is a program that takes one type of data and converts it to another type of data. In the case of HTML and **CSS**, some of the more popular **preprocessor**languages include Haml and Sass . Haml is processed into HTML and Sass is processed into **CSS**

Grunt - **Grunt** is a [JavaScript](https://en.wikipedia.org/wiki/JavaScript) [task runner](https://en.wikipedia.org/wiki/Build_tool), a tool used to automatically perform frequently used tasks such as [minification](https://en.wikipedia.org/wiki/Minification_(programming)), [compilation](https://en.wikipedia.org/wiki/Compiler), [unit testing](https://en.wikipedia.org/wiki/Unit_testing), [linting](https://en.wikipedia.org/wiki/Lint_(software)), etc. It uses a [command-line interface](https://en.wikipedia.org/wiki/Command-line_interface) to run custom tasks defined in a file (known as a Gruntfile).

#6 Position: Backend Web Developer

Term(s): Demonstrated fluency and proficiency with Java, JavaScript, jQuery, SQL, and Drupal, PHP, or Node.js

Research:

PHP - Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions <?php and ?> that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve.

Node.js – is an [open-source](https://en.wikipedia.org/wiki/Open-source_software), [cross-platform](https://en.wikipedia.org/wiki/Cross-platform) [JavaScript](https://en.wikipedia.org/wiki/JavaScript) [run-time environment](https://en.wikipedia.org/wiki/Runtime_system) for executing JavaScript code [server-side](https://en.wikipedia.org/wiki/Server-side). Historically, JavaScript was used primarily for [client-side scripting](https://en.wikipedia.org/wiki/Client-side_scripting), in which scripts written in JavaScript are embedded in a webpage's HTML, to be run client-side by a JavaScript engine in the user's web browser. Node.js enables JavaScript to be used for [server-side scripting](https://en.wikipedia.org/wiki/Server-side_scripting), and runs scripts server-side to produce [dynamic web page](https://en.wikipedia.org/wiki/Dynamic_web_page) content *before* the page is sent to the user's web browser.

# #7 Position: Front End Software Engineer

Term(s): Strong proficiency in JavaScript, including DOM manipulation. Experience writing unit tests and performing end to end testing.

Research:

DOM manipulation – The **Document Object Model** (**DOM**) is an application programming interface (API) for HTML and XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated.

Unit tests and performing end to end testing – End-to-end testing is a technique used to test whether the flow of an application right from start to finish is behaving as expected. The purpose of performing end-to-end testing is to identify **system dependencies** and to ensure that the data integrity is maintained between **various system components** and systems

#8 Position: Junior Web Developer

Term(s): SCSS

Research:

SCSS - CSS is the styling language that your browser understands and uses to style webpages. SCSS is a special type of file for SASS, a program written in Ruby that assembles CSS style sheets for a browser. SASS adds lots of additional functionality to CSS like variables, nesting and more which can make writing CSS easier and faster. SCSS files are processed by the server running a web app to output a traditional CSS that your browser can understand.

#9 Position: Front-end Developer

Term(s): LESS, KnockoutJS, BackboneJS, ReactJS etc (ReactJS and Redux experience is preferred).

Research:

LESS - is a CSS pre-processor, meaning that it extends the CSS language, adding features that allow variables, mixins, functions and many other techniques that allow you to make CSS that is more maintainable, themeable and extendable. **Less** runs inside Node, in the browser and inside Rhino.

KnockoutJS - **KnockoutJS** is basically a library written in **JavaScript**, based on MVVM pattern that helps developers build rich and responsive websites. The model separates the application's Model (stored data), View (UI) and View Model (**JavaScript**Representation of model). ... KO is an abbreviation used for**KnockoutJS**.

BackbonesJS - **Backbone**.**js** is a JavaScript library with a RESTful JSON interface and is based on the model–view–presenter (MVP) application design paradigm. **Backbone** is known for being lightweight, as its only hard dependency is on one JavaScript library.

ReactJS - In computing, **React** (sometimes styled **React**.**js** or **ReactJS**) is a **JavaScript** library for building user interfaces. It is maintained by Facebook, Instagram and a community of individual developers and corporations.

Redux - **Redux** is a predictable state container for JavaScript apps. (Not to be confused with a WordPress framework – **Redux** Framework.) It helps you write applications that behave consistently, run in different environments (client, server, and native), and are easy to test.

#10 Position: PHP Web Application Developer

Term(s): 3+ years experience in DevOps, IIS, OWASP.

Research:

DevOps – is the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes.

IIS – **Internet Information Services** (**IIS**, formerly Internet Information Server) is an extensible web server created by Microsoft for use with the Windows NT family. **IIS**supports HTTP, HTTPS, FTP, FTPS, SMTP and NNTP.

OWASP - The Open Web Application Security Project, an online community, produces freely-available articles, methodologies, documentation, tools, and technologies in the field of web application security.