Assignment #2 - **bolded** terms will be further researched

Position Details:

Out with the old, in with the new… CSG is working to migrate from Silverlight to **AngularJS** and this role will drive this modernization effort.

This critical role will require a highly skilled individual who will bring in-depth experience to front-end technologies and write well designed, efficient code by using some of the best software development practices.   Our team offers an innovative solution that supports virtually all content types; commerce models, marketing promotions, partner management, financial management, reporting, and analytics.

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.

*(initial thoughts) This seems like a framework that could take web applications to the next level and eradicate some limitations of HTML. With saving time in writing code, I can see why a company would be interested in diving deeper into this.*

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At Placester, we empower the real estate community by providing them simple, intuitive software for managing all of their marketing and technology - from **turnkey agent websites** to custom designed lead creation portals.  We're strong believers in creating software that just works to bring real estate professionals, and their clients, together. Learn more at placester.com/about

You’re good at:

• Building solutions on the AWS platform

• Node.js server side development

• Micro-service architectures

• Going server-less and building to scale

• Being involved in the community and passionate about your craft

**Turnkey agent websites**:

The reason for a turnkey site is a plug and play kind of site that's almost ready for the new owner to host and start his web presence or sell product that comes with it.

It’s usually a script ready to be used on a website, you don’t need to change anything or add content. The only thing you need to do is upload it, point a domain name to it and start your marketing. It can save you a lot of time developing websites, but your site won't be original.

*([rough]initial thoughts) What I gleaned from this is that turnkeys are meant to be used as placeholders of sorts while you brainstorm. I think of it as a rough outline of what a web application should be, where a developer can begin brainstorming how to make it custom.*

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• Candidate must meet the following technical qualifications:

• - Expert knowledge of PHP

• - Expert knowledge of **OO design patterns and programming**

• - Experience with MVC architecture (CodeIgniter is preferred but not required)

• - Expert knowledge of HTML5, CSS, JavaScript (Vanilla), JSON, JQuery, and AJAX

• - Experience with Bootstrap and LESS

• - Expert knowledge of MySQL and relational database design

• - Experience in building high-volume, custom web applications from scratch.

• - 3+ year experience focusing on web application development in LAMP

• - Excellent project planning, tracking, and code QA skills.

**OO design patterns and programming**: Object Oriented Design is the concept that forces programmers to plan out their code in order to have a better flowing program. A Design Pattern is a tried and tested *solution* to a common programming problem. It doesn't necessarily have to be an Object Oriented programming problem, but that is most common these days.

*(initial thoughts) I went down several rabbit holes looking OOD up (to the point where i’m still slightly confused and will do more research in my free time); there seems to be a lot of people having a lot to say about it. Becoming an expert would definitely be invaluable.*

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To be considered for the role you must have experience in the following:

• 5+ years of experience with ASP.net, C#, and SQL development

• Strong communication skills (start-up/laid-back environment)

• Prior experience in an agile environment

• Experience with **Entity Framework**

**Entity Framework**: Entity Framework (EF) is the recommend data access technology for new applications in .NET. It is an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects. It eliminates the need for most of the data-access code that developers usually need to write.

*(initial thoughts: to fully understand this term, I had to look up .NET - i’m finding that not many of these terms exist in isolation. Intimidating to have to understand a web of information, but it makes sense! I was surprised to discover that .net was a framework exclusively developed by Microsoft.)*

**Desired Qualifications:**

• Hands on experience with PHP, HTML, CSS, MySQL, JavaScript, and Linux

• Solid experience with PHP based MVC frameworks (Yii 1.x ideal)

• Experience working on long-running intranet applications (i.e. not just websites)

• Ability to refactor core functionality in legacy application

• Proficiency with **REST APIs**

• Experience with Solr search nice to have

• Ability to work onsite at client's location in downtown Chicago

• Open to a flexible schedule with anywhere from 1 to 3 days needed onsite for a period of 2-3 months

**REST APis**: A RESTful API is an application program interface (API) that uses HTTP requests to GET, PUT, POST and DELETE data. A RESTful API -- also referred to as a RESTful web service -- is based on representational state transfer (REST) technology, an architectural style and approach to communications often used in web services development.

Requirements:

- Bachelor's degree in Computer Science, Engineering, Math or equivalent

- 3+ years in Python

- Basic JavaScript

- Comfortable with Linux

- Experience with **Asynchronous frameworks** ( plus if you have worked with coroutines or tornado)

Asynchronous frameworks: Python’s asynchronous frameworks, like Tulip, Tornado, and Twisted, are increasingly important for writing high-performance web applications.

• Experience in public-facing web apps (the higher the traffic, the better)

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• Core Java

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• Javascript (vanilla, Angular, or React)

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• MySQL, PostgreSQL, and/or Oracle

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• HTML/CSS/ Sass/LESS

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• Agile environment - running in two week sprints

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• Bonus: Spring framework

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• Bonus: **Hibernate,** JPA, or MyBatis/iBatis

**Hibernate: Hibernate ORM** (Hibernate in short) is an object-relational mapping tool for the Java programming language. It provides a framework for mapping an object-oriented domain model to a relational database. Hibernate solves object-relational impedance mismatch problems by replacing direct, persistent database accesses with high-level object handling functions.

Title: Web Developer

Mandatory skills:

ColdFusion   
web services **(SOAP and REST)**   
jQuery   
SQL   
Unix/Linux

SOAP and REST: Web services are of two kinds: **Simple Object Access Protocol** (**SOAP**) and Representational State Transfer (**REST**). **SOAP** defines a standard communication protocol (set of rules) specification for XML-based message exchange. **SOAP** uses different transport protocols, such as HTTP and SMTP. **REST** is an architectural style for networked hypermedia applications, it is primarily used to build Web services that are lightweight, maintainable, and scalable. A service based on **REST**is called a RESTful service

\*Understanding of Data Warehousing principles, including Fact Tables, Dimensional Tables, Dimensional Data Modeling – **Star Schema and Snow Flake Schema)**.

\*Experience in loading and maintaining Data Warehouses and Data Marts using IBM Data Stage.

\*Experience in Unix Shell scripting.

\*Experience with Teradata Database

\*Experience with SQL, RDBMS, and Object-Oriented technologies.

\*Experience with processing XML files.

Star Schema and Snow Flame Schema: In computing, a **snowflake schema** is a logical arrangement of tables in a multidimensional database such that the entity relationship diagram resembles a snowflake shape. The **star schema** is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts.

Mid-Level Javascript Developer Skills & Requirements:

\* At least 4 years of professional experience with at least 2 years of JavaScript coding - server side and/or client side. We build complex UI interactions - knowing **XHRs**, AngularJS, and NodeJS along with how these technologies fit together to deliver cutting-edge user interfaces is a huge plus.

\* Bachelor's in Computer Science (or related major) or 5 years equivalent experience. We are looking for people who understand how reliable, maintainable, and scalable software is built.

XHRs: XMLHttpRequest (**XHR**) is an API in the form of an object whose methods transfer data between a web browser and a web server. The object is provided by the browser's JavaScript environment.