

# Sogeti Skills

(Project “beach”)

Capstone Project for CIS 440, Fall 2014  
Arizona State University

## Table of Contents

Client .....	3
Team .....	5
Problem .....	8
Solution .....	10

Client



Sogeti is a wholly owned subsidiary of Capgemini Group. It is an information technology consulting company specializing in local professional services. Sogeti developed the Test Management Approach.

Sogeti was the original name for the entire Capgemini Group, founded by Serge Kampf in 1967. The name was an acronym for "Société de Gestion des Entreprises et de Traitement de l'Information" which, roughly translated from the French Language, means "Company for the Management and Processing of Information". Through the years names included Cap Gemini Sogeti, Cap Programator, Cap Gemini and Cap Gemini Ernst & Young.

In 2002, the Cap Gemini Group founded a subsidiary called Sogeti in six countries to focus on the local IT market. In 2008 the Sogeti Group employed 20,000 people in 15 countries: Belgium, Denmark, France, Germany, the Netherlands, India, Ireland, Luxemburg, Norway, Spain, Switzerland, Sweden, Finland, UK and the U.S. It provides IT and management services with focus on application services, software control testing, infrastructure services and consulting.

Source: "Sogeti." Wikipedia, The Free Encyclopedia. Wikimedia Foundation, Inc. 27 May 2014. Web. 1 Dec. 2014.

# Team

# JOHN MONJE

6121 S. Four Peaks Pl.  
Chandler, AZ 85249  
480 231 7552  
jsmonje@live.com

## SYSTEMS ANALYST SKILLS AND CABABILITIES

- Create system requirements, process definitions, business needs, feasibility studies, and user manuals.
- Direct teams that deliver software and systems integration services.
- Proficient with MS Office, Acrobat, Photoshop, Visual Studio, and C # to produce software solutions.

## Education

### **Bachelor of Science, Computer Information Systems**

Arizona State University (Tempe, AZ), Expected graduation December, 2015.

## Experience

### **Manager, Bearing Point Consulting, Phoenix, AZ - 1997-2006**

- Generated software training and user manuals.
- Directed teams that provided software development and integration services.

### **Operations Manager, QWEST Communications, Denver, CO - 1980-1997**

- Chaired a national forum to standardize telephone processes.
- Developed and implemented process definitions, work flows, organizational structure and staffing for a start-up telephone company.
- Created requirements specifications, business needs and user manuals.

### **Staff Sergeant, United States Air Force - 1970-1980**

- Deployed, operated, and repaired microwave radios.
- Instructed Radio Relay courses.

## Activities

- ASU DISC Club (Department of Information Systems Club)
- ASU Veteran's Club
- Disabled American Veterans – Life Member
- Elementary School volunteer

7310 N 17<sup>th</sup> Ave  
Phoenix, AZ 85021

# JOHN WATHEN

(602) 448-3306  
john.s.wathen@gmail.com

To secure a position within an industry leading organization that will allow me to utilize my knowledge of C# and the .NET Framework to develop maintainable and scalable web applications.

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## TECHNICAL EXPERTISE

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**Framework:** .NET Framework including ASP.NET MVC and WebForms, LINQ, Entity Framework, Windows Communication Foundation, Web Services, Ruby on Rails

**Languages:** C#, VB.NET, JavaScript with jQuery / jQueryUI, Ruby, C+

**Tools:** Visual Studio, Team Foundation Server, Git

**Databases:** Microsoft SQL Server, MySQL

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## PROFESSIONAL EXPERIENCE

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**U-Haul International, Inc., Phoenix, AZ**  
Lead Software Developer

**May 2008 – Current**

Responsible for the development and continuous enhancement of U-Haul's multiple intranet and internet web sites featuring ASP.NET, C#, VB.NET, LINQ, Web Services, WCF Services, JavaScript with the jQuery library, and SQL.

- <http://uhaulinvestorsclub.com/> : Acted as lead developer for an ASP.NET MVC 2/3 web application on top of Entity Framework 4 that allows investors to purchase and manage debt securities from U-Haul's parent company, AMERCO. Integrated the system with identity verification, Automated Clearing House, and credit card processing services from the U.S. Treasury, Securities and Exchange Commission, and private firms. U-Haul's financial department uses the site's custom content management system to administer the application.
- <http://amercorealestate.com/> : Developed the public facing web application and its associated content management system for AMERCO Real Estate Company. The application uses ASP.NET Web Forms on top of Linq to SQL.
- <http://www.uhaul.com/> : Developed the site-wide search functionality, box exchange, and SuperGraphics portions of uhaul.com and assisted in the design of the site's overall architecture.
- Developed the core B2C communications platform for U-Haul and its sister companies. All programmatically generated physical mail, email, and text messages go through this system for scheduling, sending, and auditing. The application was developed using a CQRS/Event Sourcing architecture and uses WCF and OData services for its external API.
- Developed a project request system for internal use that allows upper management to determine priority and resource allocation for IT projects throughout the company. The application was developed with ASP.NET MVC and uses the Microsoft Enterprise Library for its data access solution.

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## EDUCATION

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Bachelors of Science Degree in Computer Information Systems, (current)  
Arizona State University, Tempe, AZ

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## REFERENCES

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References available on request

*John Wathen, Software Engineer*

# Problem



Sogeti asked us to solve two key problems: Who is “on the beach?”and What are those people good at?

Sogeti's Scottsdale office has a room that is informally called “the beach.” When one of their consultants is not actively working with a client, he waits on the beach. Account Executives at Sogeti are responsible for pairing consultants with clients and need to know who is available (on the beach) at any given time. Additionally, Account executives need to know what skills the consultants on the beach have. When a potential client calls, Account Executives can use the information stored in the Sogeti Skills database to pair them with an available consultant who has the technical expertise needed to solve their problem.

Sogeti asked that we use the Microsoft web application stack as that's what they're office uses internally.

# Solution

We developed a small web application to allow both consultants and account executives to access a relation database that stores information about who is on the beach. A demonstration version of the application is hosted at Microsoft Azure and can be seen at <https://dev-sogetiskills.azurewebsites.net/>.

Technologies used:

- **Microsoft ASP.NET MVC** – the front end is written using ASP.NET and in particular ASP.NET MVC 5. We chose ASP.NET because Sogeti hosts internally using IIS.
- **Microsoft SQL Server and SQL Azure** – All data is stored in a Microsoft SQL Server database. Again, we chose this technology because it matches Sogeti's internal hosting practices. The demonstration application actual runs on a variant known as SQL Azure. While there are some differences between SQL Azure and SQL Server proper, they did not affect our application and we were able to run a single code base against both versions.
- **Bootstrap CSS** – Twitter's Bootstrap CSS framework worked extremely well for us. It allowed us to make an attractive and responsive front end with little effort.
- **jQuery** – While there isn't a lot of client side scripting in the application, what little there is uses the ubiquitous jQuery library.
- **MS Test** – The application is backed by a full suite of unit tests. We chose to use the MS Test testing framework built into Visual Studio because it was functional enough for an application this small and, more importantly, it's one fewer step in the setup process.
- **Selenium Web Driver** – In addition to unit tests, we wrote a less comprehensive set of UI tests. We used Selenium Web Driver to test the “happy paths” for the two main user types – consultants and account executives.

- **GitHub** – All source code and supporting documentation is stored in GitHub at <https://github.com/asu-cis-capstone/sogetiskills>.

## Sign In screen

[click here to log on](#)

Sogeti Skills

Sign in

Don't have an account? [Register](#)

[click here to create a new account](#)

The diagram shows a sign-in form with two input fields and a submit button. A blue arrow points from the 'click here to create a new account' link to the 'Register' link. Another blue arrow points from the 'click here to log on' link to the 'Submit' button.

Email address

Email address in a valid Email address format

Password

password = min 7 a/n, min 1 a, min 1 n, case sensitive

Submit

[click here to log on](#)

This is the Sign In screen. From here, a user may enter an existing (valid) email/password combination to log on, or register a new account.

## Register Screen

The screenshot shows the 'Register' screen of the 'Sogeti Skills' application. The header bar is dark grey with 'Sogeti Skills' on the left and 'Sign in' on the right. The main content area is white. At the top, the word 'Register' is displayed. Below it, the text 'Already have an account?' is followed by a blue link 'Sign in' with a blue arrow pointing to it from the right. To the right of this is a blue link 'click here to return to Sign In screen'. The registration form is divided into two columns: 'Account' and 'Contact info'. The 'Account' column contains fields for 'Email address' (with a placeholder 'Email address in a valid Email address format'), 'Password' (with a placeholder 'password = min 7 a/n, min 1 a, min 1 n, case sensitive'), 'Confirm password' (with a placeholder 'passwords must match'), and 'Account type' (a dropdown menu with the text 'Choose Consultant or Account Executive from drop down'). A blue 'Submit' button is at the bottom of this column. A blue arrow points from the 'Submit' button to the right, towards the text 'click here to create the New Account, and proceed to the home screen.'. The 'Contact info' column contains fields for 'First name' (placeholder 'the users first name'), 'Last name' (placeholder 'the users last name'), and 'Phone number (10 digits)' (placeholder 'phone number = 10 n').

This is the Register screen. It is accessed from the Sign In screen.

When properly populated, Submit will create the new account and take the user to the appropriate Home screen (AE or Consultant). Alternatively, the user may return to the Sign In screen by clicking

Sign In

## Account Executive Home Screen

The screenshot shows the 'Find consultants' section of the Sogeti Skills Account Executive Home Screen. The interface includes a dark header with the 'Sogeti Skills' logo and navigation links: 'Your profile', 'Find consultants', 'Manage canonical skills', and 'Sign out'. Below the header, the 'Find consultants' title is displayed. The main form area contains three input fields: 'Beach only' with a dropdown menu (annotated with 'select Yes or No from drop down'), 'Last name' with a 'fuzzy search' label, and 'Email address' with an 'exact match' label. A 'Skills (comma separated)' field is also present, annotated with 'to search for multiple skills, separate them with a comma'. A blue 'Search' button is located at the bottom left, with an annotation 'click to search and view results' pointing to it. A blue arrow points from the 'Last name' and 'Email address' fields to the 'Search' button, with a note below it stating 'implied AND if Last name and/or Email address is populated'.

Sogeti Skills

Your profile Find consultants Manage canonical skills Sign out

### Find consultants

Beach only  
select Yes or No from drop down

Last name  
fuzzy search

Email address  
exact match

Skills (comma separated)  
to search for multiple skills, separate them with a comma

Search

click to search and view results

implied **AND** if Last name and/or Email address is populated

This is the AE Home screen. It is used to search for Consultants and Skills.

From this screen, an AE user can:

- Search and view results
- View AE profile
- Manage Skills
- Sign out

## Account Executive Search Results Screen

Sogeti Skills

[Your profile](#) [Find consultants](#) [Manage canonical skills](#) [Sign out](#)

### Find consultants

Beach only  
Yes

Last name

Email address

Skills (comma separated)  
C++

Search

2 consultants match your search criteria.

**Bussell, Young**

**This consultant has C++ skill**

**all skills are displayed for this Consultant**

**On the beach now?** Yes **Consultant status**  
**Email address** YoungSBussell@teleworm.us  
**Phone number** (989) 540-1935

View Young's profile

Skill	Proficiency
Basket Weaving	4 - Advanced
Oracle	4 - Advanced
C#	3 - Intermediate
Microsoft SQL Server	3 - Intermediate
C++	3 - Intermediate
Ruby on Rails	2 - Novice

This is result of a search from the AE Home screen. It displays the matches for the search criteria.

From this point, an AE user can:

- Search again
- View a Consultant profile



# Account Executive Add Skill Screen

Sogeti Skills

[Your profile](#)[Find consultants](#)[Manage canonical skills](#)[Sign out](#)

## Canonical skills

Canonical skills are those that have been entered by an account executive as part of a master list. Consultants can enter a free form string for their skills but by suggesting that the consultant picks from a list of canonical skills we hope to eliminate minor variations in the spelling of very common skills.

+ Add canonical skill

click to add a skill

click to edit or delete a skill

Name	
Account	<a href="#">Edit</a>   <a href="#">Delete</a>
ASP.NET	<a href="#">Edit</a>   <a href="#">Delete</a>
Basket Weaving	<a href="#">Edit</a>   <a href="#">Delete</a>
C#	<a href="#">Edit</a>   <a href="#">Delete</a>
Java	<a href="#">Edit</a>   <a href="#">Delete</a>
Ruby	<a href="#">Edit</a>   <a href="#">Delete</a>
SAP	<a href="#">Edit</a>   <a href="#">Delete</a>

This screen allows an AE user to add, edit, or delete a Skill.

## Consultant Home Screen

Sogeti Skills Your profile Sign out

John monje - Consultant ← **fname lname - user type**


**toggle to indicate status** → **On the beach**  
(Click to toggle.)

Contact info [Edit contact info](#)

<b>Name</b>	John monje
<b>Email address</b>	jmonje@gmail.com
<b>Phone number</b>	(555) 555-5555

[click to edit profile](#)

Resume [+ Upload a resume](#)

 jsmonje resume.docx

[click to upload resume](#)

**a resume previously uploaded**

Skills [Edit skills](#)

Skill	Proficiency
skill1	3 - Intermediate
skill2	3 - Intermediate

[click to edit skills](#)

**skills previously added**

This is the Consultant Home screen. It displays the Consultant profile. From this screen, a Consultant user can:

- View Consultant profile
- Edit Consultant profile
- Toggle status
- Edit Skills
- Sign out

## Consultant Add Skill Screen

Sogeti Skills

Your profileSign out

Billy Jones - Skills

[Back to profile](#)

[return to profile](#)

C#, Ruby on Rails, Postgres SQL, etc

enter new Skill here

3 - Intermediate

+

Add

Skill	these skills	Proficiency	indicate proficiency from drop down	click to add a Skill
Basket Weaving	were	3 - Intermediate		<a href="#">✕ Remove</a>
Java	previously	3 - Intermediate		<a href="#">✕ Remove</a>
JavaScript	added by this Consultant	3 - Intermediate	click to remove a Skill	<a href="#">✕ Remove</a>
Ruby		1 - Fundamental Awareness		<a href="#">✕ Remove</a>
SAP		5 - Expert		<a href="#">✕ Remove</a>

Proficiency levels?

See <http://hr.od.nih.gov/workingatnih/competencies/proficiencyscale.htm>.

**1 - Fundamental Awareness**

You have a common knowledge or an understanding of basic techniques and concepts.

**2 - Novice**

You have the level of experience gained in a classroom and/or experimental scenarios or as a trainee on-the-job. You are expected to need help when performing this skill.

**3 - Intermediate**

You are able to successfully complete tasks in this competency as requested. Help from an expert may be required from time to time, but you can usually perform the skill independently.

**4 - Advanced**

You can perform the actions associated with this skill without assistance. You are certainly recognized within your immediate organization as "a person to ask" when difficult questions arise regarding this skill.

**5 - Expert**

You are known as an expert in this area. You can provide guidance, troubleshoot and answer questions related to this area of expertise and the field where the skill is used.

This screen is used to add or delete a Consultant Skill / proficiency.

Additionally, a Consultant user can:

- Return to their profile
- Sign out