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## About Tim Andrews

Tim Andrews is a .NET Developer and SQL DBA and works as a project-based consultant to small to medium-sized businesses in the Southern California region. Tim has been working with computers since 1981 and has worked on many projects and many different technologies over the years. Today his focus is on ASP.NET and database technologies including AJAX, e-Commerce, database replication, data migration, SOAP, B2B data transfer, and mobile applications.

## Technologies

- ASP.NET
- VB.NET
- C#.NET
- AJAX/JSON
- SQL Server
- XML
- SOAP
- Web Services
- Windows Mobile
- Sharepoint
- JavaScript
- CSS
- HTML
- Classic ASP
- VSTO

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## Job History/Programming Experience

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### **2000-Present: President & Sr. Developer**

#### **Andrews Consulting, San Juan Capistrano**

Project-based development services for small to medium-sized organizations in all different industries. Everything from intranet applications and shopping carts to commercial building property management.

### **1998-2000: Sr. Developer**

#### **Langtech Systems Consulting, San Francisco/Rancho Santa Margarita**

Project-based development services for small to medium-sized organizations. Worked with Microsoft engineers in Seattle building Avana.de.com among many other large projects. Dot com bust happened and company down-sized, eliminating their SoCal office and leaving me with all of the clients. Got a business license and reseller permit and started my own company.

### **1996-1998: Sr. Systems Engineer/Developer**

#### **PC Manager, Irvine**

Managed web, mail, DNS, and database servers to host web sites for clients over a T1 line. Started building web sites in ASP and SQL. Low pay and difficult management, took a job offer from Langtech based in San Francisco to start up the Southern CA office.

## Interesting Projects

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### **Corporate Intranet**

An internal web application was built to manage most aspects of the client's business including timesheet management, design service requests, sales orders, and job costing. Facebook and LinkedIn integration (OAuth 2.0) was added to facilitate customer data entry fields for names and addresses. This was implemented using SQL Server 2008 and ASP.NET 4.0 using forms-based Active Directory authentication. SQL Report Server was utilized to provide detailed reporting capabilities for management.

### **Payroll Export**

Built application to export \$5 million of payroll data twice a month from SQL database to PEO provider. The SQL-based accounting application was not able to export the data automatically in the format required by the payroll company.

### **Netfacilities.com**

Hired to build an ASP.NET web site from the ground up, which would be a completely web-based application (ASP) similar to salesforce.com or ebay.com but designed to process work orders for commercial properties. The target customer was property managers and owners of commercial buildings and all tenants, maintenance staff, managers, and even vendors would have logins. Tenants would submit work orders, management would approve them, maintenance staff would receive the work orders and complete them, and vendors would be sent purchase orders for products. Also setup a web server farm with load balancing hardware and SQL Server clustering and replication. SQL Report Server was utilized to generate reports for users, reporting data is retrieved from a replicated one-way read-only database so as not to impact the speed of the live SQL cluster.

### **Building Inspectors**

A company that performed building inspections and was involved in class-action lawsuits against contractors and builders was storing all of their data in gigantic Excel spreadsheets, which were extremely cumbersome and prone to breaking. They had outgrown Excel long ago and should have been using a database-driven system already. I built a custom ASP.NET web interface and database backend to handle their needs, including SQL Report Server reports that would be used in their court cases. Productivity increased significantly and the new system was far more robust and useful than the old Excel system.

### **Pick to Epicor Bridge**

A multi-level-marketing company that sells women's products had been running their entire ordering and statistics system on a Pick database on a Linux platform for many years. I built a web interface so the field representatives could login and view their order history and statistics over the web. Then they decided to migrate to Epicor Financials. Thousands of orders per day were still being processed by Pick so I wrote a Windows Service to constantly monitor a folder that the Pick programmer populated with CSV files in real time. It would read in the CSV data and insert the orders into the Epicor system, with a delay of only a few minutes, and management was able to view the order data in Epicor in near-realtime.

### **Social Networking**

I was hired to build a web site for a network of orthodontists that would allow them to connect with each other, share ideas, and sign up for meetings. The group meets once per year in a tropical location and they pay their yearly dues on the web site. A large-file upload utility was built in Silverlight and avoids the problems with uploading large files using standard ASP.NET file upload controls. A basic document management system allows users to search and edit documents. E-commerce functionality enable users to pay for meetings and dues using a secure credit card payment system. Users can also edit their practice info including multiple locations, email and web addresses, and partners.

### **Streaming Internet Radio**

Flamencoradio.net is a streaming radio station that allows listeners to hear authentic flamenco music 24/7. It runs on Shoutcast and the web site compiles statistics and displays the last 10 songs played by reading the Shoutcast XML data and using XSLT to transform it into HTML along with links to purchase the CD from Amazon. Listeners can also post comments which are moderated and approved by the admin, and then displayed on the home page.

### **Intranet/Extranet**

Visual Studio Tools for Office (VSTO) was used to create an Outlook add-in that handled the conversion of Journal items into Calendar items for billing purposes, upload Calendar items as timesheets to a SQL database, convert email into support tickets, and upload contacts into the customer database. A web interface was build to manage customers, timesheets, projects, rate modifications, and invoices. Timesheets are exported to Quickbooks as IIF files, invoices are printed to PDF from Quickbooks and uploaded to the Intranet, and invoices are emailed from the Intranet to customers. Customers can also login to the Extranet to view invoices, create and updated support tickets, view a history of timesheets and invoices, and pay their invoices using secure credit card transactions.

## Detailed Work Experience

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### Microsoft and the Internet

I have been working with Microsoft technologies since around 1987 and I was always a big NT fan when everyone else was crashing their Windows 95/98/ME machines. In 1994 I worked for a company that setup web and email hosting on a T1 line so I've been using DNS, mail servers, and IIS in a hosting environment for a long time. I started building web pages with Microsoft Active Server Pages (ASP) and SQL Server around this time, my first e-commerce web site was built for a cell phone dealer, Mobile Line Communications, around 1997. I deal a lot with domain name registration and transfers as well as IIS web site setup with host headers, SSL certs, firewalls, and .NET Framework configuration and troubleshooting. I have been setting up servers in datacenters since 1998 so I'm very familiar with the specific requirements of datacenters and rack servers.

### .NET Development

I have been programming since 1981 (Atari BASIC) and my first web site was built in 1994, then classic ASP in 1996. I now program in ASP.NET using Visual Studio, with SQL Server as the database. I have experience processing live credit card transactions using various e-Commerce providers, integrating security with Active Directory, XML web services, and transferring data between various systems through SOAP, CSV, HTTP POST, etc.

### SQL Server

I also do a lot of SQL work, as both a sysadmin and DBA. I setup the databases and permissions for applications, clustering, distributed queries across multiple servers, and I also do some heavy data migration and development. All of the web projects I work on rely heavily on stored procedures for data access. I was recently hired to build a system to pull payroll data from a SQL-based accounting package, save it to a CSV-type file, and upload to their PEO provider. I also managed a web site that transfers mortgage leads from call centers to lenders using SQL Report Server, XML web services, and straight HTTP POSTs.

### Sharepoint

I have been creating custom Sharepoint web parts for clients since 2.0, including an Active Directory contact list and Project Server customization. I have performed several 2.0 to 3.0 upgrades as well as troubleshooting broken Sharepoint sites.

### Social Networking

I have integrated many features from social networking sites such as Facebook, Twitter, and LinkedIn such as displaying a Twitter feed on the home page, allowing users to cross-post status updates from the company web site to Facebook and Twitter, and read name/address data from a user's connections. Most integration uses the OAuth 2.0 protocol and JSON/XML.

## References

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Randall Hayes, IT Manager, Systems Source - (949) 224-0497

Ron Redmond, Administrator, Super Schulman Group - (714) 349-8765

Brett Gregor, Owner, Fisix - (949) 874-4545

## Notable Clients

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Access TV

Arbonne Int'l

Avanade

Environ Architecture

Epicor

Gateway Orthodontics

Global Premier Development

iDirect Marketing

Mainstay Business Solutions

Microsoft

Netfacilities

Pacific Building Care

Pegasus Biologics/Synovis

Precision Pet Products

Putnam Lovell

Redmond Orthodontics

Riffe Int'l

SOI

Systems Source

Tony Robbins

USC Orthodontics