

James R. Jones

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Project Websites :

<http://www.runfatboy.net/><http://www.qtextender.com/><http://www.markethackers.com/><http://www.aantix.com/>

Technical Skills:

Languages:

- C++
- Ruby
- Cocoa
- Java
- Javascript
- Python
- HTML

Development Environments and Frameworks:

- Ruby on Rails (using Textmate as my editor)
- Netbeans 5.X
- XCode 2.X
- Visual C++ 5.0/6.0 (C++ w/ MFC, STL)
- Visual BASIC 5.0 / 6.0
- Visual Studio .NET

Source Control:

- Subversion
- Visual Source Safe

Deployment Tools:

- Capistrano

Database Platforms:

- MySQL
- Oracle
- SQL Server 2000

Web Server Platforms:

- Apache 1.X
- IIS

Operating System Environments

- Windows 2000, XP
- *NIX

API's:

- Interactive Brokers/TWS client API (C++ and Java versions)
- CodeJock's Xtreme Toolkit (as utilized in QTExtender)
- Dialogic 5.X in conjunction with Visual C++/MFC 6.0 (D/82 and D/120 interface boards)

Design Processes and Tools:

- Visio
- UML (Rational Rose).

Projects:

- **RunFatBoy.net**

Company: MarketNoize, Inc.

RunFatBoy is an easy to use workout system designed specifically for the beginner. The user answers a series of questions and from their responses, a workout plan is generated based on their fitness level, gender, and body weight. The workout plan automatically increases the difficulty as the weeks progress. The end user can add/remove exercises from their plan. The system was written primarily in Ruby on Rails. <http://www.runfatboy.net>

- **Royal Caribbean Digital Signage Management Tool**

Company: Nanonation, Inc.

The digital signage management tool allows an administrator to define a series of playlists that play display different promotional items throughout the day. The interface is a full blown AJAX style UI allowing the end user to drag and drop items, and update properties on the fly. The system was written in Ruby on Rails with MySQL on the backend.

- **'I Never' Facebook App:** MarketNoize, Inc.

Application quizzes the user on a number of embarrassing events and allows other users to comment on their friends answers. User can contribute embarrassing questions for other users to answer. Written in Ruby on Rails using the RFaceBook gem. Currently running under Mongrel.
<http://apps.facebook.com/i-never/>

- **Weather Warning System**

Company: Air Force Weather Agency

The Weather Warning Display System is a map projection application that displays to the client a series of navigational maps with individual location points color coded to outline the current weather warning severity bulletins as issued by the individual OWS's (Operation Weather Squadron). The client was written in

Java and retrieves the weather warning data from the server via an XML data stream. Server side processes are written in Perl.

- **QTExtender**

Company: MarketNoize, Inc.

QTExtender is an add-on product for QuoteTracker that extends the system's portfolio functionality to include full portfolio reporting and covered calls/calls/puts transaction support. All transactions are stored for easy export for inclusion in a Schedule D profit/loss reports. Stock/derivative analysis is performed in real-time utilizing the robust connectivity of QuoteTracker. (MFC, Win32, Visual C++ 6.0) <http://www.qtextender.com/>

- **Shadow Monitoring Movie Export System**

Company: West Corporation

Shadow Monitoring is an N-Tier, distributed monitoring system for West Corporation's outbound division. The shadow monitoring system “monitors a marketing representative’s terminal, recording order screens and phone audio between the customer and agent. Once the session is complete, a Real media is composed using the archived audio/video and the video is made available to the requesting client.

The original system was written in Visual C++ 6.0 with MFC. The system was being rewritten in C# (.NET) as a Win NT/2K service. Reason for the rewrite is to develop a consistent code base while better modularizing the various system objects.

- **Repository Transfer**

Within the Shadow monitoring system, there are several distributed systems that act both as recording servers and temporary media storage systems. In order for the clients to view their created movie files, the Repository Transfer system transfers the media to a central repository where it can be served up to the end client. (.Net/C#; development duration of 3 months).

- **MarketHackers.com**

Utilizing the Interactive Brokers Java API, AIQ System’s Trading Expert Pro, and PCQuote Data feed (data exposed through QuoteTracker’s internal HTTP server), we have developed a fully automated trading system. The system takes candidates generated by a nightly process, and when certain pricing criterion is met, positions are bought and sold automatically. The system tracks on average 100-300 limit orders daily. You can view all data (open, closed, and pending positions) on the website, <http://www.markethackers.com>

Work Experience:

08/03 - 08/05 **Nanonation, Inc.**
301 S 13th St. #700
Lincoln, NE
(402) 323-6266
<http://www.nanonation.net>

Position: Software Engineer

Nanonation is a leader in the self-service kiosk industry. They specialize in usability with an emphasis on clean, professional design.

Nanonation has done development for a number of high profile clients including :

- Royal Caribbean Cruise Lines
- Mazda
- Burger King
- Weather Channel

Projects and Duties:

- Administrative interface for the Royal Caribbean Cruise lines digital signage system (written in Ruby on Rails; see above).
- Written an administrative system for the controlling of Royal Caribbean's pilot interactive television system (ISE; In Suite Entertainment). The system was written in Java using Glassfish v2.x for the container, to manage the views, and JPA at the model layer.
- Developed a screen saver and Mac widget for the weather channel. The screen saver was written in Cocoa and the widget is a combination of Javascript and HTML. The graphic design was done by a colleague of mine.
<http://www.macobserver.com/article/2006/11/17.2.shtml>
<http://www.weather.com/services/desktop.html>
- Wrote a driver in Cocoa for a RightTag RFID tag reader.

08/03 - 08/05 **Air Force Weather Agency**
Offutt Air Force Base
Omaha, NE

Position: Systems Sustainment and Engineering

Projects and Duties:

- The Joint Army and Air Force Weather Information Network (JAAWIN) is a large scale weather website providing data coverage for all continents (over 8 million hits a month). Real-time weather forecasts, OBS, TAFs, weather bulletins and space bulletins are provided 24x7 and updated in real-time. The web servers are on a series of Sun Solaris boxes, and the development platforms include Perl, Java (JBuilder and Netbeans), and C. Most server side processing is developed with Perl, with client side application systems developed in Java.
- CDFSII is a weather data aggregate and analysis system that intakes data from seven different satellites, analyzes the data, and outputs a series of maps that display cloud coverage and densities. These maps are then transferred on the hour to a team of meteorologists for further analysis.
- Strict development methodologies are utilized requiring a rigorous cycle of requirements gathering, design, peer review, deployment, and code maintenance for all projects..
- Rotational on-call support.
- Current Interim Secret Clearance

04/01 - 01/03 **West Corporation**
11808 Miracle Hills Dr
Omaha, NE
(402) 496-1038

Position: Systems Analyst

- Developed N-Tier, distributed monitoring system for West Corporation's outbound division (see Shadow Monitoring description above).
- Rotational, 24x7 on-call supp
- Strict adherence to a multi-phase design process with an emphasis on object oriented methodologies.

11/00 - 2/01 **Oasis Technologies**
9910 N 48th St
Omaha, NE
(402) 991-7420

Position: Software Engineer

- Developed a distributed client/server backend system to serve up game info to connected video slot machines, perform accounting tasks, and generate statistical reports. Server

communicated with slaves (slot machines) via sockets and all interprocess communication was done via named pipes. (Visual C++ 6.0, MFC)

** Development ceased when Oasis Technologies lost their Washington market. Company was downsized, and I was laid off.

11/98 - 11/00 **Foundation for Educational Services**
13th and O
Lincoln, NE

Position : Programmer / Analyst

- Development for the E.L.I.T.E. loan transaction software. Software aids schools in the processing and sending of loan applications to the appropriate guarantors. Loans are processed via a BBS dial-up connection or a POP3 server. Both Visual C++ and Visual BASIC are utilized for development tools.
- Developed an online student loan application system that allowed financial aid offices to file and modify student load data over the web. An authentication system was built to facilitate individual login accounts, a simple user management system was implemented to allow the administrator to define various levels of functionality for the end user, and forms were built for the input/updating of data online. ColdFusion was utilized to develop this online application.

9/98 - 11/98 **Digital H2O Web Development**
Lincoln, NE

Position: Programming Intern

- The programming of CGI scripts to aid in the enhancement of standard web pages. Simple search engines and banner display systems are among some of the scripts implemented.

5/98 - 8/98 **Union Pacific Railroad**
1416 Dodge St
Omaha, NE
(402) 271-5000

Position: Programmer Intern

- Using Visual C++, ArcView, and ArcInfo, helped to convert the dynamic segmentation model of all of U.P.'s railroad tracks into a linear referencing system that allowed users to reference points by longitude and latitude.

- Using Visual BASIC and MapObjects Web Server, helped develop a prototype for intranet map display server.

6/97 - 8/97

Union Pacific Railroad

Omaha, NE

Position: Computer Administration Intern

- Assigning of user levels across Microsoft and Novell networks.
- Overall maintenance of hardware and software for end users.

6/96 - 8/96

Union Pacific Railroad

Omaha, NE

Position: Programmer Intern

- The programming of statistical reports to aid in the auditing of U.P.'s possessions.

Education:

8/96 – 6/00 **University of Nebraska at Lincoln**
Major: Computer Science

8/92 - 5/96 **Omaha North High School**

References:

Bill Krasso
Title: Outbound Director

West Corporation
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496-1038