

# Patrick Force

## Contact

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## Education

- 1998 - 1999 **Colorado State University** » Fort Collins, CO
- School of Computer and Electrical Engineering
  - Honors Program Scholarship Recipient, Dean's List
  - 3.78 Cumulative GPA
- 2000 - 2003 **University of Georgia** » Athens, GA
- Computer Science/Management Information Systems
  - BA MIS, Terry College of Business received in May of 2003
  - 3.45 Overall GPA
  - Golden Key International Honor Society Member, Dean's List (2000-2002)
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## Work Experience

- 10/2009 - present **Columbia University, CDRS** » New York, NY  
*Application Development*
- Thus far, my work at the Center for Digital Research and Scholarship in Columbia University's system has dealt primarily with XML and Java. We've started to develop multiple online publications, auto-generated from XML data.
- 2/2009 - present **ActKnowledge** » New York, NY  
*Flex/PHP Application Architecture and Development*
- I architected and developed a PHP, Zend-based API and a Flex front end for a Visio-like web-based tool, designed to aid in building organizational theories, and help in the planning process for organizational initiatives. This project is ongoing. To have a closer look, take a look at [my portfolio](#)\*.
- 3/2009 - 5/2009 **Children's Progress** » New York, NY  
*Flex/AIR Development*
- Children's Progress has architected an MVC-based AIR application for managing school and student accounts for a suite that serves basic tests for children electronically. I helped tackle some development needs that they were falling behind on that included integrating the Flex front-end with SOAP-based API calls for account and student management.
- 2/2009 **Gallery Girls, Mary Blakemore** » New York, NY  
*Web design and development*
- I designed and implemented a blog-like site using a simple PHP framework that I developed. The framework utilizes a CMS for the client to upload new posts, manage comments, and control other site content. Currently the comments section of the site is disabled per the client's request due to low traffic. To see more, check out [my portfolio](#)\* or go directly to the site at <http://www.ceceliawestgallery.com>.
- 12/2008 - 1/2009 **Children's Progress** » New York, NY  
*XSLT/Java Development*
- I worked directly with the client to help build a Java-executed XSLT in order transform a large collection of loosely-formatted XML documents into a strict schema-defined format in order to be interpreted and rendered in a new Flex engine.
- 2/2006 - 11/2008 **Arc90, Inc.** » New York, NY  
*ColdFusion, Java, XML, Javascript/AJAX, and SQL Server Development*
- My work at Arc90 was primarily focused in the homeowner's insurance software development field. I was in charge of a ColdFusion/Java engine that processes XML insurance products against specific client inputs to develop insurance quotes in industry-leading time. I also helped develop web-based client software in the same field and for internal apps that utilized DHTML and AJAX heavily. One of my largest efforts involved migrating data from MarkLogic, a pure XML database, to a hybrid XML-relational data structure in SQL Server 2005. This migration involved the translation and insertion of over 1 million mission-critical records. The client for this software is Insight Catastrophe Solutions.
  - 2007 Company Chairman's Award Winner
- 11/2005 - 12/2005 **Webbifi Designs** » Atlanta, GA  
*ASP PDF Creation Component Upgrade*
- I initially developed an ASP PDF rendering component for a client site, <http://www.yournameuniversity.com>, while I was a full-time employee at Webbifi. This was a contract to upgrade that component.

- 10/2005 **Elizabeth Laime** » New York, NY  
*Flash Development*
- I built a flash component that allowed visitors on Elizabeth's site the ability to draw on her headshot. You can check out a demo of the component in [my portfolio](#)\*.
- 8/2005 **Pete and Brian** » New York, NY  
*New Site Design and Development*
- Pete and Brian are a comedy duo and writing partners. This was a new design project. Most content is dynamic and controlled via a CMS area managed by the clients and populated within the site via AJAX. Check out more details in [my portfolio](#)\* or go directly to Pete and Brian's site at <http://www.peteandbrian.com>.
- 6/2005 - 7/2005 **Tannermark** » Atlanta, GA  
*PHP/MySQL Development*
- I developed a PHP/MySQL CMS to manage available properties and other data for a housing developer. Their public site then rendered available properties and other relevant information such as builder specials. You can check out the publicly available portion of my work at <http://www.redoakhome.com>.
- 2/2004 - 6/2005 **Webbifi Designs** » Atlanta, GA  
*Development Management, Programming*
- At Webbifi I developed primarily in the following technologies: ASP, Visual Basic, SQL Server, and MS Access. My work at Webbifi was focused on developing custom web-based and desktop applications as well as setting up and maintaining client networks, servers, and IT infrastructure. You can find more information and links in [my portfolio](#)\*.
- 4/2002 - 5/2003 **Pratt Lab, University of Georgia** » Athens, GA  
*Programming, Bioinformatics*
- The Pratt Lab was a lab on campus that focused on gene discovery through DNA sequencing. My work involved helping out with simple Oracle database tasks, refactoring Perl scripts that performed basic internal operations, and building an order entry system that would allow lab users to quickly build orders for lab materials.
- 6/2002 - 8/2002 **FCSE, University of Georgia** » Athens, GA  
*Application Development*
- I developed an application in Visual Basic/MS Access for participants in the Freshman College Summer Experience to easily sign up for an array of orientation classes during their summer experience.
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## Skills

### • Languages and development techniques:

- *Object-oriented-based:* Java, Groovy, ActionScript 2, Actionscript 3, Visual Basic
- *Web-based server-side:* PHP, ColdFusion, Classic ASP
- *Web-based client-side:* HTML, XHTML, DHTML, JavaScript, CSS, AJAX
- *Data-oriented:* SQL, T-SQL
- *XML-based:* XML, MXML, XSLT, XQuery, XPath, ECMAScript for XML
- *Procedural:* VBScript, Perl, C, C++, C#
- *Command line interface:* DOS batch, UNIX shell, cURL

### • Development platforms, applications, and frameworks:

- *IDEs:* Eclipse, Flex Builder, Aptana, Xcode, Visual Studio
- *Databases:* SQL Server 2005, MySQL, phpMyAdmin, MS Access, MarkLogic
- *JavaScript frameworks:* Prototype, JQuery
- *Java frameworks:* Restlet
- *PHP frameworks:* Zend
- *Design and graphics:* Photoshop, ImageReady, Fireworks, Illustrator
- *Version control:* TortoiseSVN, Subversion command-line usage and administration
- *Audio/Video:* Reason 3.0, Digital Performer 5, ProTools, FinalCut Pro

### • Methodologies, concepts, and protocols:

- Standard-compliant web design and implementation
- REST and HTTP, including web-based API resource development, CGI
- TCP/IP, FTP, SMTP, POP
- Subversion
- MVC architecture

### • Server technologies, administration, and hardware:

- Virtual server install and administration
  - *Windows Server:* IIS, DNS, internal networks, intranets, remote services, firewall and security
  - Linux (Debian) install and administration
  - Apache install, configuration, and administration
  - ColdFusion/JRun install, configuration and administration
  - Custom peripheral programming: credit card swipers, cash drawers
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## Interests

- I like the creative and learning potential when I sit in front of a computer.
- I'm really into score and soundtrack work, occasionally creating some myself. I've done a number of projects for independent films, online videos, content, theatre, etc. You can find some samples on [my music page](#)\*.
- Movies
- Pizza
- Tacos

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References Available Upon Request

\* In the event that you received a version of this resume that is printed or doesn't contain working links, you can go to <http://www.patrickforce.com/resume/portfolio> to check out my portfolio, and <http://www.patrickforce.com/music> for the music page.