

ERIC SHIELDS

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Job Search Details:

Objective: To put my skills and energies toward a web development or software engineering full time job. I am especially fond of using PHP, JavaScript, XHTML/CSS and C.

Availability: Currently in a position. Availability to be discussed individually.

Citizenship: **US Citizen**

Desired Job Titles: Content Engineer – Web, Software Engineer, **HTML/JavaScript/PHP Developer**

Job Details: Full-Time, No Shift Preference, Willing to Work Weekends and/or Overtime, **Potentially Willing to Relocate to Anywhere in the US**

Work Experience: *2½ Years Software Engineering-related Experience*
1½ Years Web Design-related Experience

Education: ROCHESTER INSTITUTE OF TECHNOLOGY, ROCHESTER, NY
Bachelor of Science in Computer Engineering

GRADUATED: MARCH 7, 2007

Employment History:

APPLICATION DEVELOPER ASSOCIATE PROFESSIONAL
CSC Technology Management Group

November 2006 – Current
Binghamton, NY

- Create custom solutions for clients internal to BAE Systems
 - Client-oriented, task-driven application development
 - Worked primarily with SQL for Oracle
 - Most tasks consist of creating a data report from specifications provided by the client
 - Effective communication is vital in all forms, as the work is done in direct correspondence with the client
 - Example tasks include: a Material Disposition Report, an Export Review Report which would then be processed automatically by another company, and a Fixed Asset Register Inventory Report
- Also part of the APEX (Application Express) development team, specializing in work with flash-based online charting tools
 - Wrote a PL/SQL package to allow easier creation of the XML needed for the online charts
- Started position with zero knowledge of SQL, databasing, APEX, or Oracle Applications

SOFTWARE ENGINEER: SUMMER INTERNSHIP PROGRAM
Honeywell Aerospace

June 2006 – August 2006
Phoenix, AZ

- Created an Intranet website to allow the search and retrieval of engine vibration test data by employees
 - Written in PHP, JavaScript, and XHTML/CSS; uses Fusebox framework
 - Required testing in many OS/browser combinations to ensure functionality in any situation
 - Designed for expandability and maintainability - Fully W3 standards compliant
 - Completed in 1 ½ month., from initial concept to live release
- Integrated the above with another test data retrieval site
 - Reworked the secondary site to match the first in look and functionality
 - Added login and export control to both sites

SOFTWARE ENGINEERING CO-OP
Harris RF Communications

September 2005 – November 2005
Rochester, NY

- **Issued a security clearance**
- Familiarization with manuals, concepts, functionality, and testing of Falcon II radios
- Learned basics of Visual Basic in under 1 week
- Modify existing Visual Basic code to improve GUI's for multiple test scripts
- Debugging and alteration of Visual Basic testing scripts
- Assisted with field testing of new radio software and learned some military radio communication protocols

- Design a program in PHP to convert very old file format to a newly developed one. (4000 lines of code)
- Read, understand, and modify the Perl conversion script (from the new format to the old)
- Design programs in PHP to test the conversion from the new format to the old
- Project of great importance; undertaken to prevent the loss of extensive amounts of test data being stored in the old format on servers which are no longer supported
- Required extremely fast adaptation to new climate, new work environment, and new programming languages. Learned PHP and Regular Expressions in less than 5 days each

Projects:

GUILD WEBSITE (FREE-TIME PROJECT, 2007)

- Self-motivated project to create a highly functional website for a World of Warcraft guild. Written in PHP, XHTML, DHTML, CSS, and JavaScript, the site caters to the many needs of a guild, including an interactive calendar, a screenshot uploader and viewer, a registration and login system, and many other features. A MySQL database is used to maintain many features of the site. The website is located at <http://freedomchoice.coldcandor.com>

WEBSITE DESIGN AND IMPLEMENTATION (RIT PROJECT, 2006)

- Contained both an individual project and a group project intended to make use of the many aspects of XHTML and JavaScript available, including Cascading Style Sheets, XHTML and HTML, PHP, JavaScript, Forms, Form Mail, Password protected pages, and validation. Please visit the pages below (Best Viewed in Firefox or other W3 Standards compliant browser, not Internet Explorer)
- http://old.coldcandor.com/409/assignment_3/ – Final individual project
- <http://old.coldcandor.com/409/webjunkies> – Group project
- http://old.coldcandor.com/409/assignment_1/design_doc.pdf – Design Document for Group Project

EBOOKFORMATTER (FREE-TIME PROJECT, 2005)

- Self-motivated project to produce an extensively functional text formatter for use with eBook-style text documents, as well as emails. Written in PHP and HTML. Hosted by Sourceforge.net at <http://ebookformat.sourceforge.net/>

SOFTWARE ENGINEERING (RIT PROJECT, 2003)

- Team project to design entire bowling management system using Java, including automatic and manual scoring and complete graphical user interface in a real-world environment (e.g. weekly status reports, team reviews, and final project reflection)

COMPUTER SCIENCE (RIT PROJECT, 2002)

- Team project to design an adaptable genetic mating algorithm using C++ and apply it to problems such as solving a maze and a number guessing game

LINKS TO ALL WEB-BASED PROJECTS CAN BE FOUND ON MY WEBSITE: <http://www.coldcandor.com>.

Relevant College Courses:

Website Design and Implementation	Introduction to VLSI Design
Computer Science I – IV	Computer Architecture
Software Engineering	Computer Organization
Applied Programming	Data and Computer Communications
Introduction to Computer Vision	Digital Signal Processing

Computer Skills:

- **Programming Language skills**
 - Extensive knowledge in PHP, Regular Expressions, XHTML/CSS, C, and SQL
 - Workable Knowledge in XML, Fusebox
 - Knowledge in Visual Basic, Perl, Java, C++, PL/SQL
 - Very quick study of new languages and programs

- **Operating System and specific program skills**

All Forms of Windows	Emacs	PuTTY	Toad for Oracle
UNIX	vi	X-Win	Discoverer for Oracle
LINUX	MS Word	JEdit	
Macintosh	MS Excel	Mentor Graphics Suite	
MS-DOS	MS Powerpoint	WinSCP	

Honors and Activities:

- RIT Presidential Scholarship
- TAP award for excellence in academics
- High School Honor Society Member
- Member of People to People International Student Ambassador Program since 2000
- Member of House of General Science at RIT, 2001-2004
- *Community Service Head* of the House of General Science, 2002-2004
- Volunteer and fundraiser for Multiple Sclerosis Society, 1999-2001
- Varsity Track and Field (Indoor and Outdoor), 2003-2006
- Member of the IEEE Society
- Avid outdoorsman and environmental advocate

REFERENCES, TRANSCRIPT, LETTERS OF RECOMMENDATION, AND CODE SAMPLES AVAILABLE ON REQUEST