

David A. Foster

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Objective

To develop and maintain highly technical software or hardware applications using my broad skillset.

Education

The University of Edinburgh, Edinburgh, Scotland

MSc, Computer Science

September 2004 - September 2005

MSc Project Title: "Foundations for a Filesize Efficient Parallel MPEG Encoder"

Rensselaer Polytechnic Institute, Troy, NY, USA

BS, Computer Science

August 2000 - May 2004, graduated Cum Laude

GPA: 3.63/4.00

Transcripts available upon request.

Computer Skills

Primary Languages

C, C++, PHP, Perl

Very Familiar

Parallel/Multithreaded programming, Java, SQL, MySQL, Fully validating XHTML/CSS, XML, XSLT, GNU/Linux (Gentoo), Project management tools - CVS, Subversion, Rational Rose, UML, Doxygen, Sourceforge, GNU Make, GDB; Adobe Photoshop, Microsoft Office inc. Access, Microsoft Windows 2000/XP, Microsoft Visual Studio, Gtk/Gtkmm, VIM

Familiar

Javascript, Visual Basic, GNU/Linux (Ubuntu, Arch), Solaris, AIX, Apache Web Server, Python, Ruby, Ruby on Rails, C#, Mono platform, MFC, Win32, Xlib

Work Experience

Web Developer, Circus Media (<http://www.circusmedia.com>)

Portsmouth, NH based design firm

August 2003 - Present (part time)

Contact: Neil Snow, 1 (603) 422-9570 (neil@circusmedia.com)

- o Developed custom server-side applications at clients' requests
- o Maintained and developed large database driven websites
- o Assisted in development and implementation of E-commerce solutions, interfacing with a major crediting authorization system

Teaching Assistant, Computer Science Dept., RPI

Assistant to graduate instructor for course entitled Programming in Perl

Fall 2003, Spring 2003, Fall 2002, Spring 2002 semesters

Contact: Paul Lalli (lallip@cs.rpi.edu)

Contact (Fall 2003): Eric Griffin (griffe@cs.rpi.edu)

- o Assisted in creation of homework assignments and exams
- o Corrected student homework
- o Aided students with coursework via email and in person meetings

Process Knowledge Intern, Alstom Power, Inc.

Intern in Process Knowledge department of HRSG division in Windsor, CT

Summer 2003, 2002, 2001, Winter Break 2001/2002, 2002/2003

Contact: Katia Selby, 1 (860) 285-2338 (katia.selby@power.alstom.com)

- o Maintained and upgraded distributed database application used by 200+ employees
- o Automated several tasks report generation
- o Assisted in computer related problems
- o Developed applications for Lotus Notes
- o Developed intranet based application to replace existing database system

Independent Projects

Open Source Contributions

Submitted small patches for X Windows desktop applications Torsmo (<http://torsmo.sf.net>) and FBPanel (<http://fbpanel.sf.net>), developer for Minipager, Tangent, and Nitrogen (<http://syscrash.hopto.org>).

SAS Films (<http://www.sasfilms.com>)

Helped co-author a high traffic, database-driven video website featuring clips and short movies of skiing and snowboarding. No longer actively developing the site, but still involved in the design and planning of future versions.

Personal Consultant (Spring 2004)

Performed a variety of web design tasks for a class and for an instructor personally. Emphasis was placed on web standards and re-usability. Developed a custom application to maintain news entries on a site that did not support server side scripting. Also developed a newspaper style automated system for student work to be displayed.

References

Katia Selby

1 (860) 285-2338

katia.selby@power.alstom.com

Christine Lapham

1 (518) 373-1006

laphac@rpi.edu

Neil Snow

1 (603) 422-9570

neil@circusmedia.com

Awards

Dean's List, Fall 2000 - Spring 2004

Interests

- Free/Open Source Software
- Computers, programming, standards compliant web design