

S. ANDREW SHEPPARD

19476 Irving St. NW • Elk River, MN 55330 • USA

sheppard@umn.edu • +1 763 227 8106

www.andrewsheppard.net

EDUCATION

M.S. Computer Science

University of Minnesota, Twin Cities, May 2007 (expected)

B.S. Information Technology Management with high distinction

Minor in Business Management

University of Minnesota, Crookston, May 2005

A.A.S. Software Development & Web Design and Development with honors

Anoka-Hennepin Technical College, Anoka, MN, May 2002

HONORS

Chancellors List (4.0 GPA), Fall 2003 - Fall 2004

Outstanding Achievement in Math & Physics, Fall 2003 - Spring 2004

Dean's List (4.0 GPA), Fall 2000 - Spring 2002

QUALIFICATIONS AND INTERESTS

Ongoing research involving open-source or "free" software and related concepts, including GNU/Linux and the Apache web server.

Database driven website application development using Perl and MySQL.

Experience in networking and database management, and administration of multiple operating systems.

Coursework in project management, documentation standards and internet business (e-Commerce) concepts.

Basic fluency in Japanese and interest in East Asian cultures, languages, and business.

LANGUAGES AND SKILLS

Communication - English, Japanese (basic)

Programming - Perl, SQL, C++, Java, Visual Basic 6.0, Python, Lisp, PHP

Web - HTML, CSS, JavaScript, XML

Operating Systems - GNU/Linux (Debian, Ubuntu, Fedora), Windows XP, Mac OS X

Applications - Apache 1.3 & 2.0, MySQL, GIMP & ImageMagick (image processing), SPSS

RESEARCH AND EXPERIENCE

Internet Application Development

Math, Science and Technology Department

University of Minnesota

Crookston, MN

October 2003 - Present

Develop Perl applications for the LAMP-based WebTools system (tools.crk.umn.edu) created by Dr. David DeMuth, as well as for other projects, including:

- **River Watch Database** - www.riverwatch.umn.edu
In cooperation with the [International Water Institute](#) and the [Northwest Minnesota Regional Sustainable Development Partnership](#). Designed to facilitate the collaboration of regional schools and other volunteers as they measure water quality in the Red River basin.
- **Local Foods Partnership** - www.localfoods.umn.edu
Initiated by Linda Kingery and the Northwest Minnesota Regional Sustainable Development Partnership. Designed to link local farmers and producers with potential buyers, ultimately promoting sustainable agriculture and regional economic growth. The website allows each producer to log in and update information regarding their organization, and is continually improved by regular meetings with local producers and other users.
- **Online Survey Correlation and Analysis** - tools.crk.umn.edu/web/cgi/usurvey.pl
Expanded the USurvey Webtool system to include correlation of multiple questions (such as age vs. opinion on a relevant topic), with accompanying Perl-generated graphs and tables.
- **Online Polling and Collaboration** - tools.crk.umn.edu/web/cgi/poll3.pl
Expanded the WebTools Polling system to include a collaboration mode, which requires poll takers to agree on an answer, and the ability to define numeric (algebraic) poll questions with randomly generated numbers.

High-Energy Physics

Soudan Underground Laboratory

University of Minnesota

Tower-Soudan, MN

Summer 2004

Worked with Dr. Marvin Marshak and a team of U of M students to begin disassembly of the Soudan 2 Proton Decay detector and prepare the location for future projects such as the Low Background Counting Facility. Also assisted in the development of a interactive visitor kiosk and support of the lab's network infrastructure.

Teaching Assignment

Rivers Christian Academy

Elk River, MN

Spring 2002

Designed and taught an 11-week introductory course on Visual Basic 6.0 to senior high school students. This assignment was initiated through an information technology instructor at Anoka-Hennepin Technical College.

LEADERSHIP ROLES

Club President

Multicultural-International Club
University of Minnesota
Crookston, MN
Fall 2004 - Spring 2005

Officiated club meetings and organized trips and activities for one of the largest clubs on the UMC campus, with a majority of members coming from around the world. Activities included a variety show involving several club members which was put on for the community.

Small Group Leader

Elk River, MN
Crookston, MN
Fall 2001 - Spring 2005

Facilitated small group discussion on various religious and philosophical topics with students ranging from junior high to college age, in various contexts.

REFERENCES

David DeMuth, Jr., Ph.D.

Associate Professor and Head
Math, Science and Technology Department
University of Minnesota, Crookston, MN 56716
demuth@umn.edu - (218) 281-8259
ray.crk.umn.edu/~demuth

Linda Kingery, M.S.

Executive Director
Northwest Minnesota Regional Sustainable Development Partnership
University of Minnesota, Crookston, MN 56716
kinge002@umn.edu - (877) 854-7737
www.regionalpartnerships.umn.edu/northwest

Marvin Marshak, Ph.D.

Professor
School of Physics and Astronomy
University of Minnesota, Twin Cities, MN 55455
marshak@umn.edu - (612) 624-1312
www.physics.umn.edu/~marshak

Transcripts available on request.